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Index of Mosses 1993–1995

Missouri Botanical Garden

Index of Mosses 1993-1995

The cover and title page illustration is *Porotrichum tenuinerve* B. H. Allen. See Novon 4: 315, 1994.

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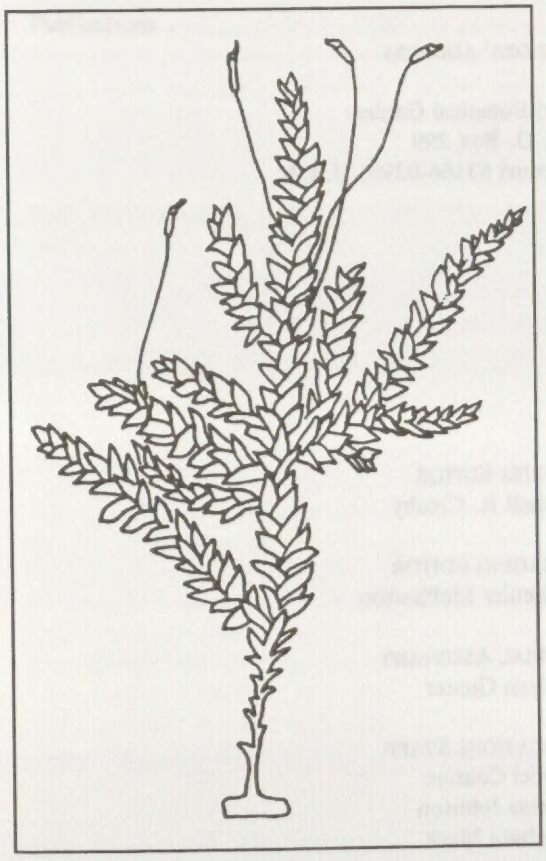
Index of Mosses

a catalog of the names and citations for new taxa, combinations, and names for mosses published during the years 1993 through 1995, inclusive, with citations of previously published basionyms and replaced names together with a bibliography of the publications in which these nova appeared



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Missouri
Botanical
Garden

MONOGRAPHS IN SYSTEMATIC BOTANY

FROM THE MISSOURI BOTANICAL GARDEN

Volume 62

Published in September 1997 in an edition of 500 copies.

ISSN 0161-1542
ISBN 0-915279-47-9

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Table of Contents

Introduction 1

Index of Mosses 3

Literature Cited 95

Authors 103

Publications 105

Introduction

The *Index of Mosses, 1993–1995 (IOM 93–95)*, contains 788 nova published between 1 January 1993 and 31 December 1995, which includes Richard Zander's monumental *Genera of Pottiaceae: mosses of harsh environments*. In addition, 98 nova that should have appeared in our earlier *Indexes of Mosses* and valid nova that should have appeared in *Index Muscorum* are included. Finally, there are some corrections to the earlier *Indexes of Mosses* and *Index Muscorum*.

IOM 93–95 follows the style of the *Index of Mosses, 1963–1989,* which appeared in 1992, and *Index of Mosses, 1990–1992*, which appeared in 1994. Users should read their introductions for details about content and format.

Protologue locality data are now given fully and quoted as they appeared in the protologues, except a few extraordinarily long protologues are condensed and names of countries are always given in English. Collectors' names are given as they appear in the protologue, rather than being reduced to only the family name. *IOM 93–95* lists names of authors and publications not previously listed in *Index of Mosses, 1963–1989*, with a few entries duplicated, when additional information is now available.

As with earlier *Indexes of Mosses*, *IOM 93–95* is based on information contained in MOST, a subset of the database TROPICOS, developed and maintained at the Missouri Botanical Garden. *Index of Mosses* is a nomenclator, not reflecting taxonomic interpretations of acceptance or synonymy. Interpretations of the *Tokyo Code* are ours, and other workers may disagree in some instances.

In the 33-year period since the close of *Index Muscorum*, 1963 through 1995, we record 6646 nova, of which we interpret 342 (5.1%) as inadmissible under the *Code*: 254 (3.8%) are invalid, and 87 (1.3%) are illegitimate. In the previous 33 years, 1930 through 1962, 9257 nova were published (39.3% more than from 1963 through 1995), of which 1650 (17.8%) are unacceptable: 1211 (13.1%) are invalid, and 439 (4.7%) are illegitimate. The interpretations of the two periods rest on slightly different foundations: 1963–1995 on the MOST database, for which we are responsible, 1930–1962 for the most part on *Index Muscorum*, with many of our corrections and additions. But the trend is clear: fewer nova and fewer of them inadmissible under the *Code*, probably, initially at least, in large part because of the existence of *Index Muscorum*.

During 1963 through 1995, 2730 (41.1%) of the nova were published as new taxa, 3633 (54.7%) as new combinations, and 283 (4.3%) as new names. The equivalent numbers for the previous 33 years are: 6086 (65.7%), 3117 (33.7%), and 54 (0.6%), with the last number for this period probably being too low and the first too high, because of the way the information is recorded in MOST. Of the 6646 nova published from 1963 through 1998, 3973 are at the species rank. The number for 1930 through 1962 is 5132 at the species rank. Using the Checklist of the Species of Mosses of the World, still incomplete, 2476 (62.3%) of the species from the more recent 33 years are being accepted at some level, while 1532 (30.0%) from the previous 33 years are being accepted.

ACKNOWLEDGEMENTS: We thank our bryological colleagues at MO, especially Bruce Allen, Steve Churchill, Si He, Bob Ireland, and Jesús Muñoz, for helping prepare the *Index of Mosses, 1993–1995*. Various others have helped by sending reprints and pointing out errors in previous *Indexes* and in TROPICOS. We particularly appreciate Barb Mack's formatting and proofreading.

ACANTHOCLADIELLA Fleischer, 1923.
Acanthocladiella kilimandscharica Brotherus & Potier de la Varde, Bull. Soc. Bot. France 71: 1058. f. 3. 1924.
Other use: *Rhacopilopsis kilimandscharica* (Brotherus & Potier de la Varde) W. R. Buck, 1993.
Acanthocladiella transvaaliensis Thériot & Dixon in Sim, Trans. Roy. Soc. South Africa 25: 424. illustration. 1926.
Other use: *Rhacopilopsis transvaaliensis* (Thériot & Dixon in Sim) W. R. Buck, 1993.

***ACANTHOCLADIUM** Mitten, 1883.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Acanthocladium comosum Tixier, Rev. Bryol. Lichénol. 37: 747. f. 10. 1970 [1971].
Other use: *Wijkia comosa* (Tixier) B. C. Tan & Iwatsuki, 1993.
Acanthocladium filiferum Brotherus & Paris ex Tixier, Rev. Bryol. Lichénol. 37: 748. f. 11. 1970 [1971].
Other use: *Wijkia filifera* (Brotherus & Paris ex Tixier) B. C. Tan & Iwatsuki, 1993.
Acanthocladium flagelliforme Tixier, Rev. Bryol. Lichénol. 37: 751. f. 13. 1970 [1971].
Other use: *Wijkia flagelliformis* (Tixier) B. C. Tan & Iwatsuki, 1993.
Acanthocladium semitortipilum Fleischer, Musci Buitenzorg 4: 1210. 1923. [See Fleischer, M., 1915–1922 [1923].]
Other use: *Wijkia semitortipila* (Fleischer) Lin Shan-hsiung, 1984.
Acanthocladium sublepidum var. ***denticulatum*** Tixier, Rev. Bryol. Lichénol. 34: 165. 1966.
Other use: *Wijkia sublepida* var. *denticulata* (Tixier) B. C. Tan & Iwatsuki, 1993.

ACAULON C. Müller, 1847.
Acaulon eremicola Stone, J. Bryol. 10: 467. f. 1–2, pl. 1. 1979. [See Stone, I. G., 1979.]
Type: Australia. Northern Territory, Mt. Olga National Park, Mt. Olga Gorge, Ayers Rock, *Stone 5134*. Holotype: MEL.
Note: not in *Index of Mosses, 1963–1989*.
Acaulon rufochaete Magill, Fl. S. Africa, Bryophyta, Mosses 1: 201. f. 56: 19–25. 1981 [1982].
Other use: *Microbryum rufochaete* (Magill) Zander, 1993.

***ACROCRYPHAEA** W. P. Schimper ex Brotherus, 1905.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Acrocryphaea coffeae var. ***laxiretis*** Thériot ex Bizot, Bull. Mens. Soc. Linn. Soc. Bot. Lyon 34: 315. 1965.
Other use: *Schoenobryum coffeae* var. *laxiretis* (Thériot ex Bizot) Duarte, 1995.
Note: invalid, no Latin description (Article 36.1, *Tokyo Code*), in Thériot, Mem. Soc. Bot. Cub. Hist. Nat. "Felipe Poey" 14(4): 355. 1940.

ACROPORIUM Mitten, 1868.
Acroporium convolutum var. ***elatum*** (Dixon) B. C. Tan, Willdenowia 24: 263. 1994. [See Tan, B. C., 1994a.]
Basionym: *Acroporium longicuspis* var. *elatum* Dixon, 1935.
Acroporium divaricatum E. B. Bartram, Lloydia 5: 284. pl. 4: f. 51. 1942.
Other use: *Acroporium strepsiphyllum* var. *divaricatum* (E. B. Bartram) B. C. Tan, 1994.
Acroporium estrellae (C. Müller) W. R. Buck & Schäfer-Verwimp, Bol. Mus. Paraense Emílio Goeldi, Bot. 7: 646. 1991 [1993].
Basionym: *Hypnum estrellae* C. Müller, 1851.
Acroporium exiguum (Brotherus) W. R. Buck & Schäfer-Verwimp, Bol. Mus. Paraense Emílio Goeldi, Bot. 7: 651. 1991 [1993].
Basionym: *Sematophyllum ulicinum* var. *exiguum* Brotherus, 1926.
Acroporium incrassatum Dixon & Thériot, Mélanges Bryol. Lichénol. 79. 1942.
Other use: *Macrohymenium incrassatum* (Dixon & Thériot) Kis, 1984.

Acroporium leucophyllum Dixon, Bull. Torrey Bot. Club 51: 250. pl. 4: f. 6. 1924.
Other use: *Clastobryum leucophyllum* (Dixon) B. C. Tan, 1994.

Acroporium longicuspis var. ***elatum*** Dixon, J. Linn. Soc., Bot. 50: 120. 1935.
Other use: *Acroporium convolutum* var. *elatum* (Dixon) B. C. Tan, 1994.

Acroporium malayanum Dixon, Bull. Torrey Bot. Club 51: 257. pl. 4: f. 16. 1924.
Other use: *Papillidiopsis malayana* (Dixon) B. C. Tan, 1994.

Acroporium praelongum var. ***aciphylloides*** B. C. Tan, Willdenowia 24: 274. 1994. [See Tan, B. C., 1994a.]
Type: Borneo. "North Borneo, Sabah, Mt. Tambuyokon, 6–7,000 ft. alt." *Meijer B11314*. 7.6.1961. Holotype: L. Paratype cited.

Acroporium prionophylax W. R. Buck, Trop. Bryol. 8: 206. 1993, "*prionophylax*." [See Buck, W. R., 1993.]
Type: Zaïre. "Prov. Kivu: Irangi Forest Station 110 km W of Bukavu, BRYOTROP locality 119, alt. 850 m." *T. Pócs 6869*. Aug 22, 1991. Holotype: NY. Paratypes cited.

Acroporium stramineum var. ***hamulatum*** (Fleischer) B. C. Tan, Willdenowia 24: 285. 1994. [See Tan, B. C., 1994a.]
Basionym: *Sematophyllum hamulatum* Fleischer, 1905.

Acroporium stramineum var. ***turgidum*** (Mitten) B. C. Tan, Willdenowia 24: 286. 1994. [See Tan, B. C., 1994a.]
Basionym: *Acroporium turgidum* Mitten, 1868.

Acroporium strepsiphyllum var. ***divaricatum*** (E. B. Bartram) B. C. Tan, Willdenowia 24: 289. 1994. [See Tan, B. C., 1994a.]
Basionym: *Acroporium divaricatum* E. B. Bartram, 1942.

Acroporium turgidum Mitten, J. Linn. Soc., Bot. 10: 183. 1868.
Replaced name: *Hypnum turgidum* Dozy & Molkenboer, 1844.
Blocking name: *Hypnum turgidum* (C. J. Hartman) C. J. Hartman, 1843.
Other use: *Acroporium stramineum* var. *turgidum* (Mitten) B. C. Tan, 1994.

AEROBRYOPSIS Fleischer, 1905.

Aerobryopsis martinicensis (Brotherus in Urban) Spessard-Schueth in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 726. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Basionym: *Papillaria martinicensis* Brotherus in Urban, 1903.

***AMBLYSTEGIELLA** Loeske, 1903.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).

Amblystegiella yuennanensis Brotherus, Symb. Sin. 4: 103. 1929.
Other use: *Platydictya yuennanensis* (Brotherus) Redfearn & B. C. Tan, 1995.

AMBLYSTEGIUM W. P. Schimper in B.S.G., 1853.

Amblystegium relaxum Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot., 3e sér., 15: 40. 1906. [See Theriot, I., 1906.]
Note: not in *Index Muscorum*.

Amblystegium sinensi-subtile C. Müller, Nuovo Giorn. Bot. Ital., ser. 2, 3: 123. 1896.
Other use: *Platydictya sinensi-subtilis* (C. Müller) Redfearn & B. C. Tan, 1995.

Amblystegium spuriosubtile Brotherus & Paris, Rev. Bryol. 31: 94. 1904.
Other use: *Platydictya spuriosubtilis* (Brotherus & Paris) Schofield, 1965.

AMBLYTROPIS (Mitten) Brotherus, 1907.

Amblytropis denticulata Thériot, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 14: 367. pl. 55: 5. 1940.
Other use: *Lepidopilum denticulatum* (Thériot) F. D. Bowers in A. J. Sharp, H. Crum & Eckel, 1994.

ANACALYPTA Röhling ex Léman, 1816.
Note: proposed for rejection.

Anacalypta lanceolata var. ***angustata*** Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 2: 48. pl. 125: B (fasc. 18–20 Mon. 4. pl. 1: B). 1843.

Other use: *Tortula lanceola* var. *angustata* (Bruch & W. P. Schimper in B.S.G.) Zander, 1993.

Anacalypta starkeana var. ***brachyodus*** Bruch & W. P. Schimper, Bryol. Eur. 2: 47 (fasc. 18–20 Monogr. 6). 1843.
Replaced name: *Weissia affinis* W. J. Hooker & Taylor, 1818.
Other use: *Microbryum starkeanum* var. *brachyodus* (Bruch & W. P. Schimper) Zander, 1993.

Anacalypta starkeana var. ***subgymnostoma*** De Notaris, Atti Reale Univ. Genova 1: 583. 1869, "*starckeana*."
Other use: *Microbryum starkeanum* var. *subgymnostoma* (De Notaris) Zander, 1993.

Anacalypta zealandiae R. Brown ter, Trans. & Proc. New Zealand Inst. 30: 413. pl. 41: f. 4. 1898.
Other use: *Microbryum zealandiae* (R. Brown ter) Zander, 1993.

ANISOTHECIUM Mitten, 1869.

Anisothecium hioramii Thériot, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 212. 1939.
Other use: *Dicranella hioramii* (Thériot) Duarte, 1995.

Anisothecium hioramii var. ***acunae*** Thériot, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 212. 1939.
Other use: *Dicranella hioramii* var. *acunae* (Thériot) Duarte, 1995.

ANOECTANGIUM Schwägrichen, 1811, conserved name.

Anoectangium brotherusii Kis, Proc. Third Meeting Bryol. C. & E. Europe 219. 1984. [See Kis, G., 1984.]
Replaced name: *Anoectangium torquatum* Brotherus, 1897.
Blocking name: *Anoectangium torquatum* (W. J. Hooker) Steudel, 1824.
Note: not in *Index of Mosses, 1963–1989*.

Anoectangium kashmiriense Aziz & Vohra, Bull. Bot. Surv. India 25: 239. f. 1–12. 1983 [1985]. [See Aziz, M. N. & J. N. Vohra, 1983 [1985].]
Type: India. "Kashmir: Masjid Vallen." *Duthie 14398*. Jul 25 1892. Holotype: CAL.
Note: not in *Index of Mosses, 1963–1989*.

Anoectangium keniae (Potier de la Varde) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 138. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum keniae* Potier de la Varde, 1953.

Anoectangium platyphyllum R. S. Williams, Publ. Field Columbian Mus., Bot. Ser. 4(5): 130. pl. 6. 1927.
Other use: *Molendoa platyphyllum* (R. S. Williams) Zander, 1993.

Anoectangium shepherdae (Cardot & Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 138. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hymenostylium shepheardae* Cardot & Dixon, 1910.

****Anoectangium torquatum*** Brotherus, Bot. Jahrb. Syst. 24: 232. 1897.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Anoectangium torquatum* (W. J. Hooker) Steudel, 1824.
Other use: *Anoectangium brotherusii* Kis, 1984.

Anoectangium warburgii Crundwell & M. O. Hill, J. Bryol. 9: 435. f. 1. 1977.
Other use: *Molendoa warburgii* (Crundwell & M. O. Hill) Zander, 1993.

ANOMOBRYUM W. P. Schimper, 1860.

Anomobryum drakensbergense Rooy, Bothalia 16: 42. f. 3. 1986. [See Rooy, J. van, 1986.]
Type: South Africa. "Natal, 2929 (Underberg): Organ Pipes Pass (–AA), 7,000–8,000 ft." *Esterhuysen 34594*. Holotype: PRE; isotypes: BOL, MO.
Other indicated distribution: Lesotho.
Note: not in *Index of Mosses, 1963–1989*.

Anomobryum minutirete (C. Müller) Kis, Proc. Third Meeting Bryol. C. & E. Europe 219. 1984. [See Kis, G., 1984.]
Basionym: *Bryum minutirete* C. Müller, 1888.
Note: not in *Index of Mosses, 1963–1989.*

Anomobryum worthleyi H. Robinson, Bryologist 70: 320. f. 18–20. 1967.
Other use: *Bryum worthleyi* (H. Robinson) Menzel, 1992.

ARCHIDIUM Bridel, 1827.

****Archidium globiferum*** (Bridel) Frahm, Trop. Bryol. 9: 62. 1994. [See Frahm, J.-P., 1994b.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Basionym: *Pleuridium globiferum* Bridel, 1819 [1818].
Earlier name: *Archidium globiferum* (Bruch) Wijk & Margadant, 1947.

Archidium yunnanense Arts & Magill, J. Bryol. 18: 63. f. 1–2. 1994. [See Arts, T. & R. E. Magill, 1994.]
Type: China. "Yunnan, prov. Xishuangbanna, Mengla Co. at Km marker 637 along Menglun-Mengbang road, Northfacing wooded slope, calcareous rock, on soil along path." *R. Magill, P. Redfearn & M. Crosby 7704.* Dec 22, 1986. Holotype: MO; isotypes: KUN, PC, herb. Arts.

ASCHISMA Lindberg, 1878.

Aschisma neocaledonicum Thériot, Diagn. Esp. Var. Nouv. Mouss. 8: 4. 1910.
Other use: *Weissia neocaledonica* (Thériot) Zander, 1993.

Aschisma occultum G. Roth, Aussereur. Laubm. 173. pl. 18: 1. 1911.
Other use: *Uleobryum occultum* (G. Roth) Zander, 1993.

ASTOMUM Hampe, 1837.

Astomum chilense R. S. Williams, Bull. Torrey Bot. Club 42: 393. pl. 21: f. 7–15. 1915.
Other use: *Trichostomum williamsii* Zander, 1993.

Astomum cryptocarpum Brotherus, Bih. Kongl. Svenska Vetensk.-Akad. Handl., 26 Afd., 3(7): 19. 1900.
Other use: *Tortella cryptocarpa* (Brotherus) Zander, 1993.

Astomum lonchophyllum G. Roth, Aussereur. Laubm. 182. pl. 18: f. 4. 1911.
Other use: *Trachycarpidium lonchophyllum* (G. Roth) Zander, 1993.

Astomum novae-valesiae Brotherus ex G. Roth, Hedwigia 54: 271. pl. 10: f. 12. 1913.
Other use: *Weissia novae-valisiae* (Brotherus ex G. Roth) Stone, 1980.

ATRICHUM Palisot de Beauvois, 1804, conserved name.

Atrichum anomalum Milde, Hedwigia 8: 161. 1869.
Other use: *Polytrichastrum longisetum* var. *anomalum* (Milde) Ignatov & G. L. S. Merrill, 1995.

BARBELLA Fleischer ex Brotherus, 1906.

Barbella sect. ***Neodicladiella*** Noguchi, J. Hattori Bot. Lab. 3: 77. 1948.
Other use: *Neodicladiella* (Noguchi) W. R. Buck, 1994.

Barbella elongata R. S. Williams, Bull. New York Bot. Gard. 8: 356. 1914.
Other use: *Pseudotrachypus elongatus* (R. S. Williams) W. R. Buck, 1994.

Barbella macroblasta Brotherus, Philipp. J. Sci. 8: 79. 1913.
Other use: *Dicladiella macroblasta* (Brotherus) W. R. Buck, 1994.

Barbella ochracea Noguchi, Trans. Nat. Hist. Soc. Taiwan 26: 145. f. 1: 11–14. 1936.
Other use: *Sinskea flammea* subsp. *ochracea* (Noguchi) Redfearn & B. C. Tan, 1995.

BARBULA Hedwig, 1801, conserved name.

Barbula sect. ***Hyophiladelphus*** C. Müller, Syn. Musc. Frond. 1: 604. 1849.
Other use: *Hyophiladelphus* (C. Müller) Zander, 1995.

Barbula sect. ***Rufidulae*** Chen Pan-chieh, Hedwigia 80: 210. 1941, "*Rufidula.*"
Other use: *Didymodon* sect. *Rufiduli* (Chen Pan-chieh) Zander, 1993.

Barbula aculeata Wilson, Hooker's J. Bot. Kew Gard. Misc. 3: 51. 1851.
Other use: *Syntrichia aculeata* (Wilson) Zander, 1993.

Barbula agraria Hedwig, Sp. Musc. Frond. 116. 1801.
Other use: *Hyophiladelphus agrarius* (Hedwig) Zander, 1995.

Barbula amphidiacea C. Müller, Linnaea 38: 639. 1874.
Other use: *Syntrichia amphidiacea* (C. Müller) Zander, 1993.

Barbula amplexa Lesquereux, Trans. Amer. Philos. Soc., n. s., 13: 5. 1865.
Other use: *Syntrichia amplexa* (Lesquereux) Zander, 1993.

Barbula anserinocapitata Li Xing-jiang, Acta Bot. Yunnan. 3: 103. f. 2: 1–9. 1981.
Other use: *Didymodon anserinocapitatus* (Li Xing-jiang) Zander, 1993.

Barbula antarctica Hampe in C. Müller, Syn. Musc. Frond. 1: 638. 1849.
Other use: *Syntrichia antarctica* (Hampe in C. Müller) Zander, 1993.

Barbula arenae Bescherelle, Bull. Soc Bot. France 32: LIX. 1885.
Other use: *Hennediella arenae* (Bescherelle) Zander, 1993.

Barbula atrovirens var. ***leucodonta*** Corbière, Mém. Soc. Sci. Nat. Cherbourg 26: 244. 1889.
Other use: *Tortula atrovirens* var. *leucodonta* (Corbière) Zander, 1993.

Barbula austrorevoluta Bescherelle in Britton, Bull. Torrey Bot. Club 23: 480. 1896.
Other use: *Pseudocrossidium austrorevolutum* (Bescherelle in Britton) Zander, 1993.

Barbula bogotensis Hampe, Ann. Sci. Nat. Bot., sér. 5, 3: 349. 1865.
Other use: *Syntrichia bogotensis* (Hampe) Mitten ex Zander, 1993.

Barbula bolanderi Lesquereux & T. P. James, Trans. Amer. Philos. Soc., n. s., 13: 5. 1865.
Other use: *Syntrichia bolanderi* (Lesquereux & T. P. James) Zander, 1993.

Barbula brandisii C. Müller, Flora 61: 82. 1878.
Other use: *Syntrichia brandisii* (C. Müller) Zander, 1993.

Barbula brevisetacea Hampe ex F. Müller, Anal. Draw. Austral. Moss. 4. 1864.
Replaced name: *Barbula breviseta* C. Müller & Hampe, 1855.
Blocking name: *Barbula breviseta* (Montagne) C. Müller, 1849.
Other use: *Syntrichia brevisetacea* (Hampe ex F. Müller) Zander, 1993.

Barbula byrdii E. B. Bartram, Ann. Missouri Bot. Gard. 25: 720. 1938.
Other use: *Bryoerythrophyllum byrdii* (E. B. Bartram) Zander, 1993.

Barbula cardotii Dusén, Bot. Not. 1905: 299. 1905.
Other use: *Didymodon cardotii* (Dusén) Zander, 1993.

Barbula chenia Redfearn & B. C. Tan, Trop. Bryol. 10: 65. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Replaced name: *Trichostomum obtusifolium* Brotherus, 1923.
Blocking name: *Barbula obtusifolia* Schwägrichen, 1811.

Barbula clavicostata (Renauld & Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 151. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila clavicostata* Renauld & Cardot, 1898.

Barbula conotricha var. ***fagicola*** C. Müller, Flora 68: 416. 1885.
Other use: *Syntrichia anderssonii* var. *fagicola* (C. Müller) Zander, 1993.

Barbula corticicola Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 35(1): 309. 1897.
Other use: *Trichostomum soulae* var. *corticicola* (Renauld & Cardot) Zander, 1993.

Barbula crassicostata E. B. Bartram, Bryologist 49: 114. 1946.
Other use: *Didymodon crassicostatus* (E. B. Bartram) Zander, 1993.

Barbula crassicuspis H. Robinson, Bryologist 67: 446. f. 1–3. 1964.
Other use: *Mironia crassicuspis* (H. Robinson) Zander, 1993.

Barbula crinita Schultz, Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 11(1): 226. 1823.
Other use: *Pseudocrossidium crinitum* (Schultz) Zander, 1993.

****Barbula decidua*** C. Müller, Linnaea 43: 425. 1882.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Barbula decidua* (Mitten) Jaeger, 1873.
Correct name: *Barbula uruguensis* Paris, 1894.
Other use: *Didymodon deciduus* Zander, 1993.

Barbula densifolia W. J. Hooker & Wilson, London J. Bot. 3: 543. 1844.
Other use: *Hennediella densifolia* (W. J. Hooker & Wilson) Zander, 1993.

Barbula denticulata Wilson in Mitten, Hooker's J. Bot. Kew Gard. Misc. 3: 50. 1851.
Other use: *Hennediella denticulata* (Wilson in Mitten) Zander, 1993.

Barbula ditrichoides Brotherus, Akad. Wiss. Wien, Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 133: 566. 1924.
Other use: *Didymodon rigidulus* var. *ditrichoides* (Brotherus) Zander, 1993.

Barbula dixoniana (Chen Pan-chieh) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Hydrogonium dixonianum* Chen Pan-chieh, 1941.

Barbula ehrenbergiana C. Müller, Syn. Musc. Frond. 1: 636. 1849.
Other use: *Mironia ehrenbergiana* (C. Müller) Zander, 1993.

Barbula elongata Wilson in Mitten, Hooker's J. Bot. Kew Gard. Misc. 3: 51. 1851.
Other use: *Mironia ehrenbergiana* var. *elongata* (Wilson in Mitten) Zander, 1993.

Barbula filaris C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 309. 1890.
Other use: *Syntrichia filaris* (C. Müller in Neumayer) Zander, 1993.

Barbula flagellaris W. P. Schimper, Ann. Sci. Nat. Bot., sér. 2, 6: 146. pl. 10. 1836.
Other use: *Syntrichia flagellaris* (W. P. Schimper) Zander, 1993.

Barbula fontana C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 308. 1890.
Other use: *Syntrichia fontana* (C. Müller in Neumayer) Zander, 1993.

Barbula geheebiaeopsis C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.
Other use: *Syntrichia geheebiaeopsis* (C. Müller) Zander, 1993.

Barbula glacialis Kunze ex C. Müller, Syn. Musc. Frond. 1: 634. 1849.
Other use: *Syntrichia glacialis* (Kunze ex C. Müller) Zander, 1993.

Barbula goniospora C. Müller, Hedwigia 37: 131. 1898.
Other use: *Tortella goniospora* (C. Müller) Zander, 1993.

Barbula hastata Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 34. 1859.
Other use: *Didymodon hastatus* (Mitten) Zander, 1993.

Barbula imshaugii Vitt, Bryologist 74: 464. f. 1, 5–11. 1971 [1972].
Other use: *Trichostomum imshaugii* (Vitt) Zander, 1993.

Barbula insidiosa Juratzka & Milde, Hedwigia 8: 97. 1869.
Other use: *Didymodon rigidulus* var. *insidiosus* (Juratzka & Milde) Röll, 1915.

Barbula isoindica Zander, Bull. Buffalo Soc. Nat. Sci. 32: 151. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Pottia papillinervis* Lorentz, 1864.
Blocking name: *Barbula papillinervis* C. Müller & Kindberg in Macoun, 1892.

Barbula kunzeana C. Müller, Linnaea 17: 586. 1843.
Other use: *Hennediella kunzeana* (C. Müller) Zander, 1993.

Barbula kurzii C. Müller, Linnaea 37: 177. 1872.
Other use: *Hydrogonium javanicum* var. *kurzii* (C. Müller) Gangulee, 1972.

Barbula lavardei (Thériot) Zander & Churchill in Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 663. 1995. [See Churchill, S. P. & E. L. Linares C., 1995b.]
Basionym: *Meesia lavardei* Thériot, 1937.

Barbula leucodontoides (Gangulee) Gangulee, Mosses E. India 692. 1972. [See Gangulee, H. C., 1972.]
Basionym: *Hydrogonium leucodontoides* Gangulee, 1966 [1967].
Note: not in *Index of Mosses, 1963–1989*; invalid, no description, in C. Müller in Paris, Ind. Bryol. Suppl. 170. 1900.

Barbula leucostega C. Müller, Syn. Musc. Frond. 1: 641. 1849.
Other use: *Syntrichia leucostega* (C. Müller) Zander, 1993.

Barbula limbata Mitten, Hooker's J. Bot. Kew Gard. Misc. 3: 354. 1851.
Other use: *Hennediella limbata* (Mitten) Zander, 1993.

Barbula linearis Swartz ex Weber & D. Mohr, Index Mus. Pl. Crypt. 2. 1803.
Other use: *Tortella linearis* (Swartz ex Weber & D. Mohr) Zander, 1993.

Barbula longipedunculata C. Müller, Syn. Musc. Frond. 1: 630. 1849.
Other use: *Hennediella longipedunculata* (C. Müller) Zander, 1993.

Barbula lorentzii C. Müller, Linnaea 42: 346. 1879.
Other use: *Chenia lorentzii* (C. Müller) Zander, 1993.

****Barbula lorentzii*** Kis, Proc. Third Meeting Bryol. C. & E. Europe 219. 1984. [See Kis, G., 1984.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Barbula lorentzii* C. Müller, 1879.
Replaced name: *Barbula papillinervis* (Lorentz) Brotherus, 1902.
Blocking name: *Barbula papillinervis* C. Müller & Kindberg in Macoun, 1892.
Note: not in *Index of Mosses, 1963–1989*.

Barbula obtusissima C. Müller, Syn. Musc. Frond. 1: 640. 1849.
Other use: *Syntrichia obtusissima* (C. Müller) Zander, 1993.

****Barbula papillinervis*** (Lorentz) Brotherus, 1902.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Note: *Barbula lorentzii* Kis, 1984, was proposed as a new name for this, but it, too, is a later honomym.

Barbula percarnosa C. Müller, Linnaea 42: 347. 1879.
Other use: *Syntrichia percarnosa* (C. Müller) Zander, 1993.

Barbula perrevoluta C. Müller, Linnaea 43: 486. 1882.
Replaced name: *Barbula subrevoluta* C. Müller, 1879.
Blocking name: *Barbula subrevoluta* Hampe, 1874.
Other use: *Pseudocrossidium perrevolutum* (C. Müller) Zander, 1993.

Barbula polyseta C. Müller, Nuovo Giorn. Bot. Ital., n. s., 4: 414. 1897.
Other use: *Hennediella polyseta* (C. Müller) Zander, 1993.

Barbula porphyreoneura C. Müller, Nuovo Giorn. Bot. Ital. 4: 13. 1872.
Other use: *Pseudocrossidium porphyreoneurum* (C. Müller) Zander, 1993.

Barbula propagulifera (Li Xing-jiang & Zhang Man-xiang) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995, "*propagul-iferum*." [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Streblotrichum propaguliferum* Li Xing-jiang & Zhang Man-xiang, 1983.

Barbula rigidula var. ***perobtusa*** Brotherus, Symb. Sin. 4: 41. 1929.
Other use: *Didymodon rigidulus* var. *perobustus* (Brotherus) Redfearn & B. C. Tan, 1995.

Barbula ruralis var. ***gigantea*** Lesquereux, Mem. Calif. Acad. Sci. 1: 13. 1868.
Other use: *Syntrichia ruralis* var. *gigantea* (Lesquereux) Zander, 1993.

Barbula scabrinervis C. Müller, Syn. Musc. Frond. 1: 634. 1849.
Other use: *Syntrichia scabrinervis* (C. Müller) Zander, 1993.

Barbula schnyderi C. Müller, Linnaea 43: 434. 1882.
Other use: *Syntrichia schnyderi* (C. Müller) Zander, 1993.

Barbula semirosulata Zander, Bull. Buffalo Soc. Nat. Sci. 32: 151. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Gymnostomiella rosulata* Potier de la Varde, 1957.
Blocking name: *Barbula rosulata* (C. Müller) C. Müller, 1898.

Barbula serripungens Lorentz & C. Müller, Linnaea 42: 350. 1879.
Other use: *Syntrichia serripungens* (Lorentz & C. Müller) Zander, 1993.

Barbula serripungens var. ***excesa*** C. Müller, Linnaea 42: 351. 1879.
Other use: *Syntrichia serripungens* var. *excesa* (C. Müller) Zander, 1993.

Barbula spathulifolia (Dixon & Potier de la Varde) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 151. 1993. [See Zander, R. H., 1993b.]
Basionym: *Merceyopsis spathulifolia* Dixon & Potier de la Varde, 1927.

Barbula sprengelii Schwägrichen, Sp. Musc. Frond., Suppl. 2, 1(1): 64. pl. 119: *Barbula sprengelii*. 1823.
Other use: *Plaubelia sprengelii* (Schwägrichen) Zander, 1993.

Barbula stenotheca Thériot, Smithsonian Misc. Collect. 85(4): 21. f. 12. 1931.
Other use: *Mironia stenotheca* (Thériot) Zander, 1993.

Barbula stewartii E. B. Bartram, Bull. Torrey Bot. Club 82: 23. 1955.
Other use: *Didymodon stewartii* (E. B. Bartram) Zander, 1993.

Barbula subaristata Bruch & W. P. Schimper ex C. Müller, Syn. Musc. Frond. 1: 644. 1849.
Other use: *Syntrichia subaristata* (Bruch & W. P. Schimper ex C. Müller) Zander, 1993.

Barbula subrevoluta var. ***acutifolia*** C. Müller, Linnaea 42: 335. 1879.
Other use: *Pseudocrossidium perrevolutum* var. *acutifolium* (C. Müller) Zander, 1993.

Barbula subrevoluta var. ***linearifolia*** C. Müller, Linnaea 42: 335. 1879.
Other use: *Pseudocrossidium perrevolutum* var. *linearifolium* (C. Müller) Zander, 1993.

Barbula trivialis C. Müller, Hedwigia 38: 107. 1899.
Other use: *Didymodon trivialis* (C. Müller) J. Guerra in J. Guerra & Ros, 1987.

****Barbula uruguayensis*** Brotherus, Bih. Kongl. Svenska Vetensk.-Akad. Handl. 26 Afd. 3(7): 18. 1900.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Barbula uruguensis* Paris, 1894.
Other use: *Didymodon uruguayensis* Zander, 1993.

Barbula uruguensis Paris, Index Bryol. 101. 1894.
Replaced name: *Barbula decidua* C. Müller, 1882.
Blocking name: *Barbula decidua* (Mitten) Jaeger, 1873.
Other use: *Didymodon deciduus* Zander, 1993.

Barbula viridula C. Müller, Nuovo Giorn. Bot. Ital., n. s., 4: 114. 1897.
Other use: *Syntrichia viridula* (C. Müller) Zander, 1993.

Barbula zennoskeanna B. C. Tan, Hikobia 11: 415. f. 1–14. 1994. [See Tan, B. C., 1994b.]
Type: Philippines. "Isabela Province, Palanan Wilderness, on ultrabasic soil at Bicotan Landing site near an inlet." *B. C. Tan 92-218*. May 21, 1992. Holotype: FH; isotypes: BM, CAHUP, H, IBSC, L, NY.

BARDUNOVIA Ignatov & Ochyra, Arctoa 5: 54. f. 22, 24, 26–29. 1995. [See Ignatov, M. S. & R. Ochyra, 1995.]
Type: *B. baicalensis* Ignatov & Ochyra, holotype.
Original placement: Plagiotheciaceae.

Bardunovia baicalensis Ignatov & Ochyra, Arctoa 5: 54. f. 22, 24, 26–29. 1995. [See Ignatov, M. S. & R. Ochyra, 1995.]
Type: Russia. "Provincia Irkutsk, Zvezdnyj, Laricetum, ad truncos putridos." *L. V. Bardunov s.n.* Jul 1,

1983. Holotype: MHA; isotypes: IRK, KRAM, S.

BECCARIA C. Müller, 1872.

Beccaria elatior C. Müller, Nuovo Giorn. Bot. Ital. 4: 11. 1872.
Other use: *Tortula minor* var. *elatior* (C. Müller) Zander, 1993.

Beccaria minor C. Müller, Nuovo Giorn. Bot. Ital. 4: 11. 1872.
Other use: *Tortula minor* (C. Müller) Zander, 1993.

BELLIBARBULA Chen Pan-chieh, 1941.

Bellibarbula recurva (Griffith) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 142. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum recurvum* Griffith, 1842.

BRACHYMENIUM Schwägrichen, 1824.

Brachymenium deceptivum A. J. Shaw & W. R. Buck, Brittonia 46: 95. f. 1–8. 1994. [See Shaw, A. J. & W. R. Buck, 1994.]
Type: Ethiopia. "Managasha Forest, near car park in *Juniperus* forest, on vertical earth bank by road." *E. F. Gilbert 162.* Jun 1966. Holotype: NY; isotypes: MICH, herb. Shaw.

Brachymenium domingense (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 278. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula domingensis* Thériot, 1944.

BRACHYTHECIUM W. P. Schimper in B.S.G., 1853.

Brachythecium allisonii Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Replaced name: *Brachythecium subpilosum* var. *angustifolium* Allison, 1960.
Blocking name: *Brachythecium angustifolium* Iishiba, 1934.

Brachythecium percurrens Hedenäs, Bryophyt. Biblioth. 54: 453. f. 3. 1992.
Type: Madeira. "P. Moniz, R. da Janela, along path from lower levada on road from Galhano, ± horizontal part, 700–750 m a.s.l." *L. Hedenäs MA91-299.* Jun 9, 1991. Holotype: S; isotypes: BM, DUIS, L, LISU, MADJ. Paratypes cited.
Note: incorrectly cited as invalid and from Bryophyt. Biblioth. 44: 92. 1992 in *Index of Mosses, 1990–1992.*

Brachythecium pseudopiliferum (Hampe) Thériot, Rev. Bryol. Lichénol. 9: 35. 1936.
Basionym: *Hypnum pseudopiliferum* Hampe, 1866.
Note: not in *Index Muscorum.*

Brachythecium rigens W. R. Buck, Trop. Bryol. 8: 201. 1993. [See Buck, W. R., 1993.]
Type: Rwanda. "Pref. de Ruhengeri: Mt. Karisimbi, *Alchemilla johnstonii* vegetation interrupted by boulders on the E-slope in the alpine belt, 4400 m; on soil." *Frahm 8208.* Sep 14, 1991. Holotype: NY.

Brachythecium rutabulum var. ***atlanticum*** Hedenäs, Nova Hedwigia 54: 450. f. 2. 1992. [See Hedenäs, L., 1992.]
Type: Madeira. "Ribeiro Frio, around the village, c. 900 m a.s.l." *L. Hedenäs MA90-190.* Apr 7, 1990. Holotype: S; isotypes: BM, MADJ.
Note: incorrectly cited as invalid and from Bryophyt. Biblioth. 44: 96. 1992 in *Index of Mosses, 1990–1992.*

Brachythecium subpilosum var. ***angustifolium*** Allison, Trans. Roy. Soc. New Zealand, Bot. 88: 9. 1960.
Other use: *Brachythecium allisonii* Fife, 1995.

BRAUNIA Bruch & W. P. Schimper in B.S.G., 1846.

Braunia tucumanensis Biasuso, Lilloa 38: 12. f. I: 6–7, IV: 1–7. 1993. [See Biasuso, A. B., 1993.]
Type: Argentina. "Tucumán, Deptl. Taff Viejo, El Siambón, 1100 m s.m." *A. B. Biasuso s.n.* Apr 19, 1988. Holotype: LIL (C 54181). Paratypes cited.

BREUTELIA (Bruch & W. P. Schimper) W. P. Schimper, 1856.

Breutelia masafuerae Brotherus in Skottsberg, Nat. Hist. Juan Fernandez 2(3): 427. 1924.
Other use: *Breutelia subplicata* var. *masafuerae* (Brotherus in Skottsberg) Matteri, 1973.

Breutelia subplicata var. ***masafuerae*** (Brotherus in Skottsberg) Matteri, Revista Mus. Argent. Ci. Nat., Bernardino Rivadavia Inst. Nac. Invest. Ci. Nat., Bot. 4: 345. 1973. [See Matteri, C. M., 1973.]
Basionym: *Breutelia masafuerae* Brotherus in Skottsberg, 1924.
Note: not in *Index of Mosses, 1963–1989.*

BRUCHIA Schwägrichen, 1824.

Bruchia carinata (Hampe) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 278. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum carinatum* Hampe, 1879.

BRYOCEUTHOSPORA H. Crum & L. E. Anderson, 1959.

Bryoceuthospora aethiopica (Welwitsch & Duby) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 216. 1993. [See Zander, R. H., 1993b.]
Basionym: *Ephemerum aethiopicum* Welwitsch & Duby, 1872.

BRYOERYTHROPHYLLUM Chen Pan-chieh, 1941.

Bryoerythrophyllum byrdii (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 115. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula byrdii* E. B. Bartram, 1938.

Bryoerythrophyllum chimborazense (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 116. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula chimborazensis* Mitten, 1869.

Bryoerythrophyllum fuscinervium (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 116. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula fuscinervia* Mitten, 1869.

Bryoerythrophyllum ligulare (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 116. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ligularis* Mitten, 1869.

BRYOWIJKIA Noguchi, 1973.

Bryowijkia madagassa Touw, Bull. Jard. Bot. Belg. 62: 454. f. 1. 1993. [See Touw, A., 1993a.]
Type: Madagascar. "Prov. Antsiranana, Parc National de la Montagne d'Ambre, 12°30'S, 49°10'E, on large branch of tree in open mountain near Petit Lac, 1,000–1,200 m alt." *Touw & Snoek 25111.* Jun 14, 1992. Holotype: L; isotype: MO.

BRYUM Hedwig, 1801.

****Bryum albidum*** Coppey, Bull. Soc. Sci. Nancy, ser. 3, 12(4): 11. 1911.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Bryum albidum* (Hedwig) Palisot de Beauvois, 1805.
Correct name: *Bryum ochianum* Redfearn & B. C. Tan, 1995.

Bryum balticum Nyholm & Hedenäs in Nyholm, Ill. Fl. Nord. Mosses 3: 218. f. 185. 1993. [See Nyholm, E., 1993.]
Type: Sweden. "Södermanland, Utö, close to the sea by Stora Sand." *Alan Crundwell & Elsa Nyholm s.n.* Jul 25, 1965. Holotype: S.

****Bryum caespiticium*** var. ***culmannii*** Düll, Bryol. Beitr. 8/9: 87. 1992. [See Düll, R., 1992.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

****Bryum funarioides*** Ochi, Hikobia 10: 420. f. 1. 1990.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Bryum funarioides* Bridel, 1817.
Correct name: *Bryum mieheanum* Ochi, 1993.

****Bryum kilimandscharicum*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 274. 1993. [See Zander, R. H., 1993b.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Basionym: *Erpodiopsis kilimandscharica* C. Müller, 1890.
Earlier name: *Bryum kilimandscharicum* Brotherus, 1904.

Bryum mieheanum Ochi, Hikobia 11: 264. 1993. [See Ochi, H., 1993.]
Replaced name: *Bryum funarioides* Ochi, 1990.
Blocking name: *Bryum funarioides* Bridel, 1817.

Bryum minutirete C. Müller, Flora 71: 409. 1888.
Other use: *Anomobryum minutirete* (C. Müller) Kis, 1984.

Bryum ochianum Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Replaced name: *Bryum albidum* Coppey, 1911.
Blocking name: *Bryum albidum* (Hedwig) Palisot de Beauvois, 1805.

Bryum recurvifolium Taylor, Ann. Mag. Nat. Hist., ser. 1, 11: 208. 1843.
Other use: *Trichostomum recurvifolium* (Taylor) Zander, 1993.

Bryum worthleyi (H. Robinson) Menzel, J. Hattori Bot. Lab. 71: 238. 1992. [See Menzel, M., 1992.]
Basionym: *Anomobryum worthleyi* H. Robinson, 1967.
Note: not in *Index of Mosses, 1990–1992.*

CADUCIELLA Enroth, 1991.

Caduciella guangdongensis Enroth, Bryologist 96: 471. f. 1–7. 1993. [See Enroth, J., 1993b.]
Type: China. "Guangdong Province. Ding Hu Shan Nature Reserve. 23°08'N, 112°35'E." *Touw 23459.* Holotype: L.

CALLICOSTELLA (C. Müller) Mitten, 1859, conserved name.

Callicostella microcarpa Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 33(4): 27. 1876.
Replaced name: *Hookeria microcarpa* Hornschuch, 1840.
Blocking name: *Hookeria microcarpa* (Hedwig) W. J. Hooker & Greville, 1825.
Other use: *Schizomitrium microcarpum* (Ångström) Yano, 1989.

Callicostella paulensis Brotherus, Nat. Pflanzenfam. I(3): 937. 1907.
Other use: *Schizomitrium paulense* (Brotherus) Yano, 1989.

Calyptrochaeta subsecunda (Mitten) B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Churchill, 1994.]
Basionym: *Hookeria subsecunda* Mitten, 1869.
Note: redundant combination in Churchill, AAU Bull. 35: 166. 1994.

CALLIERGON (Sullivant in A. Gray) Kindberg, 1894.

Calliergon giganteum var. ***crassicostatum*** Mikutowicz, Bryoth. Balt. 207. 1913.
Other use: *Calliergon giganteum* fo. *crassicostatum* (Mikutowicz) Karczmarz, 1965.

Calliergon giganteum fo. ***crassicostatum*** (Mikutowicz) Karczmarz, Ann. Univ. Mariae Curie-Skłodowska, Sect. 3, Biol. 20: 36. 1965.
Basionym: *Calliergon giganteum* var. *crassicostatum* Mikutowicz, 1913.
Note: not in *Index of Mosses, 1963–1989.*

Calliergon giganteum var. ***decurrens*** Mikutowicz, Bryoth. Balt. 208. 1913.
Other use: *Calliergon giganteum* fo. *decurrens* (Mikutowicz) Karczmarz, 1965.

Calliergon giganteum fo. ***decurrens*** (Mikutowicz) Karczmarz, Ann. Univ. Mariae Curie-Skłodowska, Sect. 3, Biol. 20: 37. 1965.
Basionym: *Calliergon giganteum* var. *decurrens* Mikutowicz, 1913.
Note: not in *Index of Mosses, 1963–1989.*

Calliergon luipichense R. S. Williams, Bull. New York Bot. Gard. 6: 259. 1910.
Other use: *Warnstorfia luipichensis* (R. S. Williams) Hedenäs, 1993.

CALOMNION J. D. Hooker & Wilson in J. D. Hooker, 1854.

Calomnion brownseyi Vitt & H. A. Miller in Vitt, Bryologist 98: 346. f. 44–47. 1995. [See Vitt, D. H., 1995.]
Type: New Zealand. "South Island. Westland: Camp Creek, 42°42'S, 117°32' E." *Allen s.n.* Nov 1982. Holotype: CHR. Other indicated distribution: Stewart Island.

Calomnion ceramense Vitt, Bryologist 98: 339. f. 1–7. 1995. [See Vitt, D. H., 1995.]
Type: Ceram. "Manusela National Park. Kecamatan Tehoru, from Nihehata to summit of Mt. Gunung Hoale Besa, 1280–1850 m elev., on *Cyathea* trunk." *Akiyama 16703.* Holotype: KYO; isotype: NY.

Calomnion iwatsukii Vitt, Bryologist 98: 344. f. 24–30. 1995. [See Vitt, D. H., 1995.]
Type: New Caledonia. "Mont. Mandjelia, west of Pouebo . . . 600–700 m elev., on tree fern trunk." *Iwatsuki 16175.* Holotype: NICH. Paratypes cited.

Calomnion lillianiae Vitt & H. A. Miller in Vitt, Bryologist 98: 344. f. 31–36. 1995. [See Vitt, D. H., 1995.]
Type: Norfolk Island. "Mt. Pitt Reserve, King Fern Valley, 220 m elev., on *Cyathea*." *Streimann 34569.* Holotype: CBG. Paratype cited.

CALYMPERES Swartz ex Weber, 1814 [1813].

Calymperes subgen. ***Porphyrophylum*** W. D. Reese, Fl. Neotrop. 58: 69. 1993. [See Reese, W. D., 1993a.]
Type: *Syrrhopodon rubiginosus* Mitten, *C. rubiginosum* (Mitten) W. D. Reese, holotype.

Calymperes lanceolatum Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 78. 1879.
Other use: *Syrrhopodon lanceolatus* (Hampe) W. D. Reese in B. H. Allen, 1994.

Calymperes tortelloides Brotherus & Dixon, J. Bot. 48: 306. pl. 507: f. 2. 1910.
Other use: *Trichostomum tortelloides* (Brotherus & Dixon) Zander, 1993.

CALYMPEROPSIS (C. Müller) Fleischer, 1913.

Calymperopsis crenulata Tixier, Rev. Bryol. Lichénol. 35: 277. f. 4. 1967 [1968].
Other use: *Syrrhopodon crenulatus* (Tixier) W. D. Reese, 1995.

Calymperopsis elimbatus Tixier, Bryologist 95: 284. f. 8–14. 1992.
Other use: *Syrrhopodon tixieri* W. D. Reese, 1995.

Calymperopsis langbianensis Tixier, Rev. Bryol. Lichénol. 35: 294. f. 13. 1967 [1968].
Other use: *Syrrhopodon langbianensis* (Tixier) W. D. Reese, 1993.

Calymperopsis mandrakensis Tixier, Bryologist 95: 284. f. 1–7. 1992.
Other use: *Syrrhopodon africanus* subsp. *mandrakensis* (Tixier) W. D. Reese, 1995.

CALYPTOPOGON (Mitten) Brotherus, 1902.

Calyptopogon angustifolius Herzog, Beih. Bot. Centralbl. 26(2): 63. 1910.
Other use: *Hennediella angustifolia* (Herzog) Zander, 1993.

CALYPTOTHECIUM Mitten, 1868.

Calyptothecium hoehnelii var. ***angustifolia*** (Dixon in Rendle) Kis, Proc. Third Meeting Bryol. C. & E. Europe 219. 1984. [See Kis, G., 1984.]
Basionym: *Renauldia hoehnelii* var. *angustifolia* Dixon in Rendle, 1930.
Note: not in *Index of Mosses, 1963–1989.*

CALYPTROCHAETA Desvaux, 1825.

Calyptrochaeta apiculata var. ***tasmanica*** (Brotherus) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Eriopus tasmanicus* Brotherus, 1900.

Calyptrochaeta boniana (Bescherelle) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 338. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Eriopus bonianus* Bescherelle, 1894.

Calyptrochaeta cristata (Hedwig) Desvaux, Mém. Soc. Linn. Paris 3: 226. 1825. [See O'Shea, B., 1995.]
Basionym: *Leskea cristata* Hedwig, 1801.
Note: redundant combination in O'Shea, Trop. Bryol. 10: 95. 1995.

Calyptrochaeta mniadelphus (Spruce ex Mitten) Churchill, AAU Rep. 35: 170. 1994. [See Churchill, S. P., 1994.]
Basionym: *Eriopus mniadelphus* Spruce ex Mitten, 1869.

Calyptrochaeta ramosa subsp. ***spinosa*** (Noguchi) Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 29. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Basionym: *Eriopus spinosus* Noguchi, 1937.

CAMPYLOPUS Bridel, 1818.

****Campylopus calvatus*** Mitten ex Dixon in Christophersen, Results Norweg. Sci. Exped. Tristan da Cunha 19. 1960.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Campylopus calvatus* Dixon in Luisier, 1939.
Type: Tristan da Cunha: "With *Bryum nutans*. On banks frequent. Tristan da Cunha." *Milne*. Holotype: "Type in Herb. Kew."
Note: not in *Index Muscorum*.

Campylopus longigemmatus Gao Chien in Gao Chien, Zhang Guang-chu & Cao Tong, Acta Bot. Yunnan. 3: 392. f. 3: 1–12. 1981.
Other use: *Dicranodontium longigemmatum* (Gao Chien in Gao Chien, Zhang Guang-chu & Cao Tong) Frahm, 1994.

Campylopus luetzelburgii Herzog ex Frahm, Crytpog. Bryol. Lichénol. 2: 442. f. 1, 2:3. 1981. [See Frahm, J.-P., 1981.]
Type: Brazil. "Serra do Itatiaia, Agulhas Negras." *Dusén s.n.* 2.7.1902. Holotype: B. Paratype cited.
Note: not in *Index of Mosses, 1963–1989*.

Campylopus refractus Frahm, Nova Hedwigia 59: 147. f. 1. 1994. [See Frahm, J.-P., 1994d.]
Type: New Caledonia. "Mt. Panié, low, mostly mosses forest 1300–1640 m alt." *Harold M. Moore, Jr. 10051*. Sep 30, 1972. Holotype: MO; isotype: herb. Frahm.

CEUTHOTHECA Lewinsky, Lindbergia 19: 18. 1994. [See Lewinsky-Haapasaari, J., 1994.]
Original placement: Orthotrichaceae.

Ceuthotheca cryptocarpa (E. B. Bartram) Lewinsky, Lindbergia 19: 18. 1994. [See Lewinsky-Haapasaari, J., 1994.]
Basionym: *Pleurorthotrichum cryptocarpum* E. B. Bartram, 1938.

CHENIA Zander, 1989.

Chenia leptophylla (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 258. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum leptophyllum* C. Müller, 1888.

Chenia lorentzii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 258. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula lorentzii* C. Müller, 1879.

CHRYSO-HYPNUM Hampe, 1870.

Chryso-hypnum frondosum (Mitten) W. R. Buck, Trop. Bryol. 8: 212. 1993. [See Buck, W. R., 1993.]
Basionym: *Stereodon frondosus* Mitten, 1863.

CHRYSOCLADIUM Fleischer, 1908.

Chrysocladium retrorsum var. ***pinfaense*** (Cardot & Thériot) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Meteorium retrorsum* var. *pinfaense* Cardot & Thériot, 1909.

Chrysocladium rufifolioides Brotherus, Philipp. J. Sci. 5: 153. 1910.
Other use: *Sinskea flammea* subsp. *rufifolioides* (Brotherus) Redfearn & B. C. Tan, 1995.

CLASTOBRYOPHILUM Fleischer, 1923.

Clastobryophilum asperifolium (Thwaites & Mitten) B. C. Tan, J. Hattori Bot. Lab. 74: 227. 1993. [See Tan, B. C., 1993.]
Basionym: *Sematophyllum asperifolium* Thwaites & Mitten, 1873.

CLASTOBRYUM Dozy & Molkenboer, 1846.

Clastobryum leucophyllum (Dixon) B. C. Tan, Willdenowia 24: 292. 1994. [See Tan, B. C., 1994a.]
Basionym: *Acroporium leucophyllum* Dixon, 1924.

COLOBODONTIUM Herzog, 1951.
Colobodontium vulpinum (Montagne) Churchill & W. R. Buck in Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 759. 1995. [See Churchill, S. P. & E. L. Linares C., 1995b.]
Basionym: *Neckera vulpina* Montagne, 1835.

*CONOMITRIUM Montagne, 1837.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Conomitrium asterodontium C. Müller, Syn. Musc. Frond. 2: 527. 1851.
Other use: *Fissidens pellucidus* var. *asterodontius* (C. Müller) Pursell, 1994.

CROSSIDIUM Juratzka, 1882, conserved name.
Crossidium apiculatum Magill, Fl. S. Africa, Bryophyta, Mosses 1: 195. f. 54: 1–10. 1981 [1982].
Other use: *Microcrossidium apiculatum* (Magill) J. Guerra & Cano in Cano & J. Guerra & Ros, 1993.
Crossidium woodii (Delgadillo M.) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 199. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pseudaloina woodii* Delgadillo M., 1982 [1983].

CRYPHAEA D. Mohr & Weber, 1814 [1813].
Cryphaea amurensis Ignatov, Arctoa 5: 69. f. 1–8. 1995. [See Ignatov, M. S. & V. Ya. Czerdantseva, 1995.]
Type: Russia. "Provincia Khabarovsk, jugum Dusse-Alin, Reservatum Bureense, in vallis fluminis Levaya Bureya, 2 km supra ostium torrentem Chapkhoz, . . . 590 m alt. (51°40′ bor. – 134°22′ orient.)." *O. V. Grigor'eva 89-M-88*. Aug 16, 1989. Holotype: MHA.

CTENIDIUM (W. P. Schimper) Mitten, 1869.
Ctenidium enerve (Herzog & Noguchi) Kanda ex Nishimura, J. Hattori Bot. Lab. 58: 76. 1985.
Basionym: *Campylium enerve* Herzog & Noguchi, 1955.
Note: not in *Index of Mosses, 1963–1989*. Although Nishimura attributes the combination to Kanda, J. Sci. Hiroshima Univ., Ser. B, Div. 2 15: 253. 1975, Kanda did not make the combination there, only suggesting that *Campylium enerve* is a *Ctenidium*.

*CUPRESSINA C. Müller, 1896.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Cupressina calamicola C. Müller, Hedwigia 40: 71. 1901.
Other use: *Sematophyllum calamicola* (C. Müller) Yano, 1989.

CURVICLADIUM Enroth, Ann. Bot. Fenn. 30: 110. 1993. [See Enroth, J., 1993a.]
Type: *Thamnium kurzii* Kindberg, *C. kurzii* (Kindberg) Enroth, holotype, monotypic when published.
Original placement: Neckeraceae.
Curvicladium kurzii (Kindberg) Enroth, Ann. Bot. Fenn. 30: 110. 1993. [See Enroth, J., 1993a.]
Basionym: *Thamnium kurzii* Kindberg, 1902.

CYATHOPHORUM Palisot de Beauvois, 1804.
Cyathophorum spinosum (C. Müller) Fleischer, Musci Frond. Archip. Ind. Exsic. 5: 249. 1902. [See Akiyama, H., 1992.]
Basionym: *Hookeria spinosa* C. Müller, 1851.
Note: redundant combination in Akiyama, Acta Phytotax. Geobot. 43: 114. 1992.

*CYNODONTIUM Bridel, 1806, rejected against *Cynodontium* Bruch & Schimper in B.S.G., 1856.
Cynodontium sinensifugax (C. Müller) Brotherus ex Gao Chien, Fl. Bryophyt. Sin. 1: 229. 1994. [See Gao Chien, 1994.]
Basionym: *Weissia sinensi-fugax* C. Müller, 1898.

CYPTODON (Brotherus) Paris & W. P. Schimper ex Fleischer, 1914.
Cyptodon crassinervis Brotherus in Skottsberg, Nat. Hist. Juan Fernandez 2(3): 428. 1924.
Other use: *Dendrocryphaea crassinervis* (Brotherus in Skottsberg) Enroth, 1995.

CYRTO-HYPNUM Hampe, 1869.
Cyrto-hypnum arzobispoae (C. Müller) Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 835. 1995. [See

Churchill, S. P. & E. L. Linares C., 1995b.]
Basionym: *Hypnum arzobispoae* C. Müller, 1875.
Cyrto-hypnum campanulatum (Mitten) Churchill, AAU Rep. 35: 195. 1994. [See Churchill, S. P., 1994.]
Basionym: *Thuidium campanulatum* Mitten, 1869.
Cyrto-hypnum ciliatum (Mitten) Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 835. 1995. [See Churchill, S. P. & E. L. Linares C., 1995b.]
Basionym: *Thuidium ciliatum* Mitten, 1869.
Cyrto-hypnum cylindraceum (Mitten) Churchill, AAU Rep. 35: 195. 1994. [See Churchill, S. P., 1994.]
Basionym: *Thuidium cylindraceum* Mitten, 1869.
Cyrto-hypnum espinosae (Herzog) Churchill, AAU Rep. 35: 195. 1994. [See Churchill, S. P., 1994.]
Basionym: *Thuidium espinosae* Herzog, 1942.
Cyrto-hypnum frontinoae (C. Müller) Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 835. 1995. [See Churchill, S. P. & E. L. Linares C., 1995b.]
Basionym: *Hypnum frontinoae* C. Müller, 1875.
Cyrto-hypnum intermedium (Mitten) Churchill, AAU Rep. 35: 195. 1994. [See Churchill, S. P., 1994.]
Basionym: *Thuidium intermedium* Mitten, 1869.
DALTONIA W. J. Hooker & Taylor, 1818, conserved name.
****Daltonia afropatula*** B. C. Tan in B. Thiers, Mem. New York Bot. Gard. 68: 5. 1992. [See Thiers, B. M., 1992.]
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Replaced name: *Daltonia patula* Mitten, 1863.
Blocking name: *Daltonia patula* (Hedwig) Sprengel, 1827.
Correct name: *Daltonia mittenii* Kis, 1984.
Daltonia mittenii Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Replaced name: *Daltonia patula* Mitten, 1863.
Blocking name: *Daltonia patula* (Hedwig) Sprengel, 1827.
Note: not in *Index of Mosses, 1963–1989*.
****Daltonia patula*** Mitten, J. Proc. Linn. Soc., Bot. 7: 162. 1863.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Correct name: *Daltonia mittenii* Kis, 1984.
DENDIA R. Brown ter, 1898.
Dendia maritima R. Brown ter, Trans. & Proc. New Zealand Inst. 30: 411. pl. 41: f. 3. 1898.
Other use: *Tortula maritima* (R. Brown ter) Zander, 1993.
DENDROCRYPHAEA Paris & W. P. Schimper ex Brotherus, 1905.
Dendrocryphaea crassinervis (Brotherus in Skottsberg) Enroth, Fragm. Florist. Geobot. 40: 145. 1995. [See Enroth, J., 1995.]
Basionym: *Cyptodon crassinervis* Brotherus in Skottsberg, 1924.
DESMATODON Bridel, 1819 [1818].
Desmatodon altipes Brotherus, Trudy Bot. Sada Akad. Nauk SSSR 42: 154. 1931.
Other use: *Tortula altipes* (Brotherus) Zander, 1993.
Desmatodon argentinicus Brotherus, Ark. Bot. 15(6): 5. 1918.
Other use: *Tortula argentinica* (Brotherus) Zander, 1993.
Desmatodon bellii E. B. Bartram, Bull. Brit. Mus. (Nat. Hist.), Bot. 2: 56. 1955.
Other use: *Hennediella bellii* (E. B. Bartram) Zander, 1993.
Desmatodon bogosicus C. Müller, Nuovo Giorn. Bot. Ital. 4: 12. 1872.
Other use: *Tortula bogosica* (C. Müller) Zander, 1993.

Desmatodon burmensis B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 343. 1993 [24 Nov]. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Replaced name: *Desmatodon involutus* E. B. Bartram, 1943.
Blocking name: *Desmatodon involutus* (W. J. Hooker) Mitten, 1859.

Desmatodon capillaris Dixon ex Chen Pan-chieh, Hedwigia 80: 287. f. 66. 1941.
Other use: *Tortula capillaris* (Dixon ex Chen Pan-chieh) Zander, 1993.

Desmatodon cernuus var. ***xanthopus*** Kindberg, Ottawa Naturalist 4: 61. 1890.
Other use: *Tortula cernua* var. *xanthopus* (Kindberg) Zander, 1993.

Desmatodon gemmascens Chen Pan-chieh, Hedwigia 80: 297. 1941.
Replaced name: *Didymodon gemmascens* Brotherus, 1929.
Blocking name: *Didymodon gemmascens* Mitten in G. E. Hunt, 1868.
Other use: *Syntrichia gemmascens* (Chen Pan-chieh) Zander, 1993.

****Desmatodon involutus*** E. B. Bartram, Farlowia 1: 175. 1943.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Desmatodon involutus* (W. J. Hooker) Mitten, 1859.
Other use: *Desmatodon burmensis* B. C. Tan & Iwatsuki, 1993 [24 Nov], *Plaubelia perinvoluta* Zander, 1993 [Dec].

Desmatodon kabir-khanii Brotherus, Mitt. Inst. Allg. Bot. Hamburg 8: 400. 1931.
Other use: *Tortula kabir-khanii* (Brotherus) Zander, 1993.

Desmatodon latifolius var. ***subobliquus*** Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 553. 1867.
Other use: *Tortula euryphylla* var. *subobliqua* (Lindberg) Zander, 1993.

Desmatodon raucopapillosum Li Xing-jiang, Acta Bot. Yunnan. 3: 105. f. 3. 1981.
Other use: *Tortula raucopapillosa* (Li Xing-jiang) Zander, 1993.

Desmatodon setschwanicus Brotherus, Symb. Sin. 4: 43 pl. 1: f. 8. 1929.
Other use: *Tortula laureri* var. *setschwanica* (Brotherus) Zander, 1993.

Desmatodon solomensis Brotherus, Rev. Bryol., n.s. 2: 2. 1929.
Other use: *Tortula solomensis* (Brotherus) Zander, 1993.

Desmatodon spelaeus Amann, Bull. Murith. Soc. Valais. Sci. Nat. 40: 46. 1919.
Other use: *Tortula euryphylla* var. *spelaea* (Amann) Zander, 1993.

Desmatodon steereanus Zander & H. Crum, Bryologist 80: 638. f. 1–10. 1977 [1978].
Other use: *Hennediella steereana* (Zander & H. Crum) Zander, 1993.

Desmatodon tonkinensis Bescherelle, Bull. Soc. Bot. France 41: 80. 1894.
Other use: *Tortula tonkinensis* (Bescherelle) Zander, 1993.

Desmatodon ucrainicus Lazarenko, Izv. Kievsk. Bot. Sada 4: 34. 1926.
Other use: *Tortula ucrainica* (Lazarenko) Zander, 1993.

Desmatodon wilczekii Meylan, Bull. Soc. Vaud. Sci. Nat. 52: 383, 384. 1919.
Other use: *Tortula rhodonia* Zander, 1993.

Desmatodon yuennanensis Brotherus, Symb. Sin. 4: 44. 1929.
Other use: *Tortula chungtienia* Zander, 1993.

DICHELYMA Myrin, 1833.

Dichelyma sinense C. Müller, Nuovo Giorn. Bot. Ital., n. s., 5: 190. 1898.
Other use: *Ditrichum crispatissimum* var. *sinense* (C. Müller) Cao Tong in Gao Chien, 1994.

DICLADIELLA W. R. Buck, J. Hattori Bot. Lab. 75: 57. 1994. [See Buck, W. R., 1994a.]
Type: *Meteorium cubense* Mitten, *D. cubensis* (Mitten) W. R. Buck, holotype.
Original placement: Meteoriaceae.

Dicladiella cubensis (Mitten) W. R. Buck, J. Hattori Bot. Lab. 75: 57. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium cubense* Mitten, 1869.

Dicladiella macroblasta (Brotherus) W. R. Buck, J. Hattori Bot. Lab. 75: 57. 1994. [See Buck, W. R., 1994a.]
Basionym: *Barbella macroblasta* Brotherus, 1913.
Dicladiella trichophora (Montagne) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Isothecium trichophorum* Montagne, 1843.
DICNEMON Schwägrichen, 1826.
Dicnemon subgen. ***Brauniella*** C. Müller, Gen. Musc. Frond. 252. 1900.
Other use: *Dicnemon* sect. *Brauniella* (C. Müller) B. H. Allen, 1987.
Dicnemon sect. ***Brauniella*** (C. Müller) B. H. Allen, J. Hattori Bot. Lab. 62: 61. 1987. [See Allen, B. H., 1987.]
Basionym: *Dicnemon* subgen. *Brauniella* C. Müller, 1900.
Note: not in *Index of Mosses, 1963–1989.*
Dicnemon sect. ***Fleischeria*** B. H. Allen, J. Hattori Bot. Lab. 62: 74. 1987. [See Allen, B. H., 1987.]
Type: *D. robbinsii* (E. B. Bartram) B. H. Allen, *Eucamptodon robbinsii* E. B. Bartram.
Note: not in *Index of Mosses, 1963–1989.*
Dicnemon pancheri var. ***falcatum*** (Brotherus & Paris) B. H. Allen, J. Hattori Bot. Lab. 62: 59. 1987. [See Allen, B. H., 1987.]
Basionym: *Synodontia falcata* Brotherus & Paris, 1909.
Note: not in *Index of Mosses, 1963–1989.*
DICRANELLA (C. Müller) W. P. Schimper, 1856.
Note: proposed for conservation; see Taxon 44: 615. 1995.
Dicranella hioramii (Thériot) Duarte, Fontqueria 42: 117. 1995. [See Duarte Bello, P. P., 1995.]
Basionym: *Anisothecium hioramii* Thériot, 1939.
Dicranella hioramii var. ***acunae*** (Thériot) Duarte, Fontqueria 42: 118. 1995. [See Duarte Bello, P. P., 1995.]
Basionym: *Anisothecium hioramii* var. *acunae* Thériot, 1939.
DICRANODONTIUM Bruch & W. P. Schimper in B.S.G., 1847.
Dicranodontium longigemmatum (Gao Chien in Gao Chien, Zhang Guang-chu & Cao Tong) Frahm, Crytpog. Bryol. Lichénol. 15: 196. 1994. [See Frahm, J.-P., 1994a.]
Basionym: *Campylopus longigemmatus* Gao Chien in Gao Chien, Zhang Guang-chu & Cao Tong, 1981.
DICRANOLOMA (Renauld) Renauld, 1901.
Note: proposed for conservation; see Taxon 44: 616. 1995.
Dicranoloma plurisetum C. Müller ex Dixon, New Zealand Inst. Bull. 3(1): 22. pl. 2: f. 7, pl. 3: f. 7. 1913.
Other use: *Dicranum plurisetum* (C. Müller ex Dixon) Fife, 1995.
DICRANUM Hedwig, 1801.
Dicranum subgen. ***Trichodontium*** Dixon, New Zealand Inst. Bull. 3(3): 81, 82. 1923.
Other use: *Trichodontium* (Dixon) Fife, 1995.
Dicranum crassifolium Sérgio, Ochyra & Séneca, Fragm. Florist. Geobot. 40: 204. f. 1–4. 1995. [See Sérgio, C., R. Ochyra & A. Séneca, 1995.]
Type: Portugal. "Trás-os-Montes e Alto Douro. Vila Real, Covelães, Ribeira do Rio Mau, (UTM grid aquare 29T NG92); rochas da mata; alt. 820 m." *Sérgio & Séneca 6682.* may 10, 1989. Holotype: LISU; isotypes: KRAM, PO.
Other indicated distribution: Spain.
Dicranum latifolium Hedwig, Sp. Musc. Frond. 140. 1801.
Other use: *Tortula euryphylla* Zander, 1993.
Dicranum latifolium var. ***flavescens*** Bridel, Muscol. Recent. Suppl. 1: 207. 1806.
Other use: *Tortula euryphylla* var. *flavescens* (Bridel) Zander, 1993.
Dicranum leucogaster C. Müller, Syn. Musc. Frond. 1: 387. 1848.
Other use: *Microcampylopus leucogaster* (C. Müller) B. H. Allen, 1994.

Dicranum plurisetum (C. Müller ex Dixon) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Dicranoloma plurisetum* C. Müller ex Dixon, 1913.

DIDYMODON Hedwig, 1801.

Didymodon sect. ***Crispuliformes*** Kindberg, Eur. N. Amer. Bryin. 2: 272. 1897.
Other use: *Trichostomum* subgen. *Crispuliformes* (Kindberg) Zander, 1993.

Didymodon sect. ***Rufiduli*** (Chen Pan-chieh) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993, "*Rufidulus*." [See Zander, R. H., 1993b.]
Basionym: *Barbula* sect. *Rufidulae* Chen Pan-chieh, 1941.

Didymodon aaronis (Lorentz) J. Guerra in J. Guerra & Ros, Cryptog. Bryol. Lichénol. 8: 55. 1987. [See Guerra, J. & R. M. Ros, 1987.]
Basionym: *Trichostomum aaronis* Lorentz, 1868.
Note: not in *Index of Mosses, 1963–1989*.

****Didymodon angustifolius*** E. B. Bartram, Fieldiana, Bot. 28: 4. 1951.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Didymodon angustifolius* Warnstorf, 1904.
Correct name: *Didymodon bartramii* Zander, 1993.

Didymodon anserinocapitatus (Li Xing-jiang) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula anserinocapitata* Li Xing-jiang, 1981.

Didymodon australasiae fo. ***propagulifer*** Bruguès ex J. Guerra in J. Guerra & Ros, Cryptog. Bryol. Lichénol. 8: 63. 1987, "*propaguliferus*." [See Guerra, J. & R. M. Ros, 1987.]
Type: Spain. "Tarragona, Ermita de San Gregorio, Falset." *Brugués s.n.* Feb 3 1974. Holotype: BCB; isotypes: BCB.
Note: not in *Index of Mosses, 1963–1989*.

Didymodon bartramii Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Didymodon angustifolius* E. B. Bartram, 1951.
Blocking name: *Didymodon angustifolius* Warnstorf, 1904.

Didymodon bistratosus Hébrard & Pierrot, Nova Hedwigia 59: 354. f. 1–25. 1994. [See Hébrard, J.-P., 1994.]
Type: Spain. "Provincia Málaga, circa Rondam, via C 344,4 [*sic*] km post viae C 339 compitum, ad urbem Grazalemam (5°18′12″W × 36°45′24″N), 820/m/N." *J. P. Hébrard 1-14488A*. Apr 14, 1988. Holotype: PC; isotypes: herb. J. P. Hébrard, herb. R. B. Pierrot.

****Didymodon brotheri*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 296. 1993. [See Zander, R. H., 1993b.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Didymodon cardotii (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula cardotii* Dusén, 1905.

Didymodon challaense (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum challaense* Brotherus, 1916.

Didymodon crassicostatus (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula crassicostata* E. B. Bartram, 1946.

Didymodon cylindricus var. ***gemmiparus*** W. P. Schimper, Syn. Musc. Eur. (ed. 2) 165. 1876, "*gemmipara*."
Other use: *Trichostomum tenuirostre* var. *gemmiparum* (W. P. Schimper) Zander, 1993.

Didymodon deciduus Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Barbula decidua* C. Müller, 1882.
Blocking name: *Didymodon uruguayensis* Zander, 1993.

Note: new name based on adoption of earlier epithet (Article 58.3, *Tokyo Code*); the simultaneous publication of *Didymodon uruguayensis* Zander prevents the use of *Barbula uruguensis* Paris as the basionym for the name needed in *Didymodon*.

Didymodon hampei Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Trichostomum obtusifolium* Hampe, 1870.
Blocking name: *Didymodon obtusifolius* Schkuhr, 1828.

Didymodon hastatus (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula hastata* Mitten, 1859.

Didymodon herzogii Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Trichostomum ferrugineum* Herzog, 1916.
Blocking name: *Didymodon ferrugineus* (W. P. Schimper ex Bescherelle) M. O. Hill, 1981 [1982].

Didymodon humidus (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula humida* Mitten, 1869.

Didymodon imperfectus (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum imperfectum* C. Müller, 1879.

Didymodon jackvancei Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Husnotiella plicata* Magill, 1981 [1982].
Blocking name: *Didymodon plicatus* (C. Müller) Montagne, 1856.

Didymodon lindigii (Hampe) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula lindigii* Hampe, 1869.

Didymodon marginatus (H. Robinson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993, "*marginatum*." [See Zander, R. H., 1993b.]
Basionym: *Trichostomum marginatum* H. Robinson, 1971.

Didymodon minusculus (R. S. Williams) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula minuscula* R. S. Williams, 1915.

Didymodon nevadensis Zander in Zander, Stark & Marrs-Smith, Bryologist 98: 590. f. 1–7. 1995. [See Zander, R. H., L. R. Stark & G. Marrs-Smith, 1995.]
Type: U.S.A. "Nevada. Clark Co., northern foothills of Lime Ridge, ca. 16 km N of Gold Butte, gypsiferous outcrop, elev. 487 m." *Stark & Marrs-Smith NV-225A*. April 14, 1994. Holotype: BUF; isotypes: COLO, MO, NY, UN, UNLV. Other indicated distribution: Mexico (Chihuahua), U.S.A. (Texas).

Didymodon pruinosus (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula pruinosa* Mitten, 1869.

Didymodon rigidulus var. ***ditrichoides*** (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula ditrichoides* Brotherus, 1924.

Didymodon rigidulus var. ***insidiosus*** (Juratzka & Milde) Röll, Hedwigia 56: 149. 1915. [See Röll, J., 1915.]
Basionym: *Barbula insidiosa* Juratzka & Milde, 1869.
Note: not in *Index Muscorum*.

Didymodon rigidulus var. ***perobustus*** (Brotherus) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Barbula rigidula* var. *perobtusa* Brotherus, 1929.

Didymodon rigidulus var. ***validus*** (Limpricht) Düll, J. Hattori Bot. Lab. 55: 263. 1984. [See Düll, R., 1984.]
Basionym: *Didymodon validus* Limpricht, 1888.
Note: not in *Index of Mosses, 1963–1989*.

Didymodon stewartii (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula stewartii* E. B. Bartram, 1955.

Didymodon taylorii Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Tortula campylocarpa* Taylor, 1848.
Blocking name: *Didymodon campylocarpus* (C. Müller) Brotherus, 1902.

Didymodon tophaceopsis Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Gyroweisia latifolia* Dixon, 1922.
Blocking name: *Didymodon latifolius* Wahlenberg in Weber & D. Mohr, 1807.

Didymodon trivialis (C. Müller) J. Guerra in J. Guerra & Ros, Cryptog. Bryol. Lichénol. 8: 64. 1987. [See Guerra, J. & R. M. Ros, 1987.]
Basionym: *Barbula trivialis* C. Müller, 1899.
Note: not in *Index of Mosses, 1963–1989*.

Didymodon uruguayensis Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Barbula uruguayensis* Brotherus, 1900.
Note: new name, based on adoption of earlier epithet (Article 58.3, *Tokyo Code*).

Didymodon validus Limpricht, Laubm. Deutschl. 1: 557. 1888.
Other use: *Didymodon rigidulus* var. *validus* (Limpricht) Düll, 1984.

Didymodon waymouthii (R. Brown ter) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 162. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia waymouthii* R. Brown ter, 1899.

DIPHYSCIUM D. Mohr, 1803.

Diphyscium pocsii (Bizot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 275. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pseudotimmiella pocsii* Bizot, 1980.

DISTICHOPHYLLUM Dozy & Molkenboer, 1846.

Distichophyllum brevirostratum Thériot, Monde Pl. 9: 22. 1907.
Other use: *Distichophyllum collenchymatosum* var. *brevirostratum* (Thériot) Lin Pang-juan & B. C. Tan, 1995.

Distichophyllum cirratum var. ***elmeri*** (Brotherus) Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 36. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Basionym: *Distichophyllum elmeri* Brotherus, 1909.

Distichophyllum collenchymatosum var. ***brevirostratum*** (Thériot) Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 37. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Basionym: *Distichophyllum brevirostratum* Thériot, 1907.

Distichophyllum collenchymatosum var. ***pseudosinense*** Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 38. f. 28: E–F. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Type: China. "Hainan, Mt. Jianfengling." *P.-J. Lin 3938*. Jul 1985. Holotype: IBSC; isotype: FH. Other indicated distribution: China (Fujina, Guangdon, Zhejiang).

Distichophyllum elmeri Brotherus, Leafl. Philipp. Bot. 2: 656. 1909.
Other use: *Distichophyllum cirratum* var. *elmeri* (Brotherus) Lin Pang-juan & B. C. Tan, 1995.

Distichophyllum elongatum Mitten, J. Linn. Soc., Bot. 12: 395. 1869.
Other use: *Leskeodon elongatus* (Mitten) Churchill & Linares C., 1995.

Distichophyllum meizhiae B. C. Tan & Lin Pang-juan, Trop. Bryol. 10: 55. f. 2, 8–12. 1995, "*meizhii*." [See Tan, B. C. & Pang-juan Lin, 1995.]

Type: China. "Yunnan Province, Gongshan-xian (county), Du-long-jiang Commune, on boulder by the Ching-lang-tang river bank, about 1300 m elev." *Mei-zhi Wang 10040*. Aug 1982. Holotype: PE.

Distichophyllum oblongum var. ***fanjingense*** Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 41. f. 32: E–I. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Type: China. "Guizhou, Mt. Fanjing, . . . near Nine Dragon Pond beyond Jin-ding." *B. C. Tan 91-1215*. Holotype: FH; isotype: IBSC. Paratypes cited.

Distichophyllum subnigricaule var. ***hainanense*** Lin Pang-juan & B. C. Tan, Harvard Pap. Bot. 7: 43. f. 33: E–I. 1995. [See Lin P.-J. & B. C. Tan, 1995.]
Type: China. "Hainan, Mt. Diao-luo, . . . ca. 1050 m." *P.-J. Lin et al. 945A*. Mar 1990. Holotype: IBSC; isotype: FH.

Distichophyllum wanianum B. C. Tan & Lin Pang-juan, Trop. Bryol. 10: 57. f. 1, 13–18. 1995. [See Tan, B. C. & Pang-juan Lin, 1995.]
Type: China. "Yunnan Province, Luchun, on branches." *M. Zhang 550*. Holotype: IBSC; isotypes KUN, FH.
Other indicated distribution: China (Guangdon, Hainan).

DITRICHUM Hampe, 1867, conserved name.
Note: emended conservation proposed; see Taxon 44: 617. 1995.

Ditrichum crispatissimum var. ***sinense*** (C. Müller) Cao Tong in Gao Chien, Fl. Bryo-phyt. Sin. 1: 85. 1994. [See Gao Chien, 1994.]
Basionym: *Dichelyma sinense* C. Müller, 1898.

DONNELLIA Austin, 1880.

****Donnellia asiatica*** B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 327. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

****Donnellia burmensis*** B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 327. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Donnellia matutina W. R. Buck, Trop. Bryol. 8: 207. 1993. [See Buck, W. R., 1993.]
Type: Rwanda. "Pref. de Gikongora: forêt de Nyungwe, Rwasenoko, BRYOTROP locality 102, 2°31–34′S, 29°21′E, 2,500 m." *T. Pócs 6060*. Aug 11, 1991. Holotype: NY. Paratypes cited.

DRYPTODON Bridel, 1826.

Dryptodon subgen. ***Ellipticodryptodon*** Vilhelm, Acta Bot. Bohem. 2: 53. 1923.
Other use: *Racomitrium* subgen. *Ellipticodryptodon* (Vilhelm) Bednarek-Ochyra & Ochyra, 1994.

ECTROPOTHECIUM Mitten, 1868.

Ectropothecium chloroticum var. ***donghamense*** Bescherelle, Bull. Soc. Bot. France 34: 99. 1887.
Other use: *Vesicularia chlorotica* var. *donghamense* (Bescherelle) B. C. Tan & Iwatsuki, 1993.

ENCALYPTA Hedwig, 1801.

Encalypta lanceolata Hedwig, Sp. Musc. Frond. 63. 1801.
Other use: *Tortula lanceola* Zander, 1993.

Encalypta lanceolata var. ***rigidior*** Schwägrichen, Sp. Musc. Frond., Suppl. 1, 1: 61. 1811.
Replaced name: *Weissia aciphylla* Wahlenberg, 1806.
Other use: *Tortula lanceola* var. *rigidior* (Schwägrichen) Zander, 1993.

ENDOTRICHELLA C. Müller, 1872.

Endotrichella musgraveae Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 106. 1899 [1900].
Other use: *Garovaglia elegans* var. *musgraveae* (Brotherus) During, 1977.

ENTODON C. Müller, 1845.

Entodon adyris W. R. Buck, Trop. Bryol. 8: 205. 1993. [See Buck, W. R., 1993.]
Type: Zaïre. "Prov. Kivu: Kahuzi-Biega National Park, Tshivanga Park Station 30 km W of Bukavu, BRYOTROP loc. 118, 2,200 m." *T. Pócs 6564*. Aug 20, 1991. Holotype: NY. Paratypes cited.

Entodon caliginosus var. ***subtilis*** (C. Müller) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Entodon pseudo-orthocarpus* var. *subtilis* C. Müller, 1898.

****Entodon chenagonii*** Renauld & Cardot, Prodr. Fl. Bryol. Madagascar 250. 1898.
*invalid, orthographic variant (Article 61.1, *Tokyo Code*).
Correct name: *Ectropothecium chenagonii* Renauld & Cardot in Renauld, 1891.
Note: this variant was treated as valid in *Index Muscorum*.

****Entodon chenagonii*** var. ***hamatulus*** Renauld & Cardot, Prodr. Fl. Bryol. Madagascar 250. 1898.
*invalid, orthographic variant (Article 61.1, *Tokyo Code*).
Correct name: *Ectropothecium chenagonii* var. *hamatulum* Renauld & Cardot, 1897.
Note: this variant was treated as valid in *Index Muscorum*.

Entodon pseudo-orthocarpus var. ***subtilis*** C. Müller, Nuovo Giorn. Bot. Ital., n. s., 5: 195. 1898.
Other use: *Entodon caliginosus* var. *subtilis* (C. Müller) Redfearn & B. C. Tan, 1995.

ENTOSTHODON Schwägrichen, 1823.

Entosthodon pertenella (Brotherus) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Basionym: *Funaria pertenella* Brotherus, 1913.
Note: not in *Index of Mosses, 1963–1989*.

Entosthodon subnudus var. ***subcuspidatus*** (Brotherus) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Funaria subcuspidata* Brotherus, 1898.

ENTOSTHYMENIUM Bridel, 1826.

Entosthymenium mucronifolium Bruch in F. A. Müller, Flora 12: 387. [pl. 1:] 2. 1829.
Other use: *Tortula wilsonii* var. *mucronifolia* (Bruch in F. A. Müller) Zander, 1993.

EPHEMERUM Hampe, 1837, conserved name.

Ephemerum aethiopicum Welwitsch & Duby, Mém. Soc. Phys. Genève 21: 443. pl. 3: f. 8. 1872.
Other use: *Bryoceuthospora aethiopica* (Welwitsch & Duby) Zander, 1993.

***ERIOPUS** (Bridel) Bridel, 1827.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).

Eriopus bonianus Bescherelle, Bull. Soc. Bot. France 41: 83. 1894.
Other use: *Calyptrochaeta boniana* (Bescherelle) B. C. Tan & Iwatsuki, 1993.

Eriopus mniadelphus Spruce ex Mitten, J. Linn. Soc., Bot. 12: 392. 1869.
Other use: *Calyptrochaeta mniadelphus* (Spruce ex Mitten) Churchill, 1994.

Eriopus spinosus Noguchi, J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot. 3: 51. f. 6. 1937.
Other use: *Calyptrochaeta ramosa* subsp. *spinosa* (Noguchi) Lin Pang-juan & B. C. Tan, 1995.

Eriopus tasmanicus Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 42: 109. 1900.
Other use: *Calyptrochaeta apiculata* var. *tasmanica* (Brotherus) Fife, 1995.

ERPODIOPSIS C. Müller, 1890.

Erpodiopsis kilimandscharica C. Müller, Flora 73: 470. 1890.
Other use: *Bryum kilimandscharicum* (C. Müller) Zander, 1993.

ERYTHROPHYLLASTRUM Zander, Bull. Buffalo Soc. Nat. Sci. 32: 72. 1993. [See Zander, R. H., 1993b.]
Type: *Trichostomum andinum* Sullivant, *E. andinum* (Sullivant) Zander, holotype.
Original placement: Pottiaceae.

Erythrophyllastrum andinum (Sullivant) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 74. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum andinum* Sullivant, 1859.

EUCAMPTODONTOPSIS Brotherus, 1924.

Eucamptodontopsis brittoniae var. ***mcphersonii*** B. H. Allen, Monogr. Syst. Bot. Missouri Bot. Gard. 49: 159. f. 1–6. 1994. [See Allen, B., 1994a.]
Type: Panama. "Chiriquí, Fortuna Dam region, trail to Cerro Hornito (Pate de Macho), 8°45′N, 82°15′W." *McPherson 13595B*. Holotype: MO; isotype, PMA. Paratype cited.

EURHYNCHIUM Bruch & W. P. Schimper in B.S.G., 1854.

Eurhynchium novae-zealandiae (Dixon) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Rhynchostegiella novae-zealandiae* Dixon, 1929.

Eurhynchium pulchellum var. ***scabrisetum*** (Grout) Ketchledge, New York State Mus. Bull. 363: 9. 1957. [See Ketchledge, E. H., 1957.]
Basionym: *Eurhynchium strigosum* var. *scabrisetum* Grout, 1898.
Note: not in *Index Muscorum*.

Eurhynchium strigosum var. ***scabrisetum*** Grout, Bull. Torrey Bot. Club 25: 241. 1898.
Other use: *Eurhynchium pulchellum* var. *scabrisetum* (Grout) Ketchledge, 1957.

Eurhynchium tenuivagum (Brotherus) W. R. Buck, Trop. Bryol. 8: 203. 1993. [See Buck, W. R., 1993.]
Basionym: *Hypnum tenuivagum* Brotherus, 1897.

FISSIDENS Hedwig, 1801.

Fissidens aegrotus Bizot, Rev. Bryol. Lichénol. 42: 846. 1976.
Other use: *Fissidens asplenioides* var. *aegrotus* (Bizot) Bruggeman-Nannenga, Pursell & Iwatsuki, 1994.

Fissidens aeruginosus var. ***allisonii*** (Dixon & Sainsbury) Stone, J. Bryol. 18: 163. 1994. [See Stone, I. G., 1994a.]
Basionym: *Fissidens allisonii* Dixon & Sainsbury, 1933.

Fissidens allisonii Dixon & Sainsbury, J. Bot. 71: 216. 1933.
Other use: *Fissidens aeruginosus* var. *allisonii* (Dixon & Sainsbury) Stone, 1994.

Fissidens anguste-limbatus var. ***colombiensis*** Pursell, Hikobia 11: 357. f. 1–5. 1994. [See Pursell, R. A., 1994b.]
Type: Colombia. "Vaupés. Río Kuduyarí (affluent of Río Vaupés), Yapobodá, quartzite savannah, damp bands." *Schultes & Cabrera 14307*. Holotype: FH.

Fissidens asplenioides var. ***aegrotus*** (Bizot) Bruggeman-Nannenga, Pursell & Iwatsuki, J. Hattori Bot. Lab. 77: 261. 1994. [See Bruggeman-Nannenga, M. A., R. A. Pursell and Z. Iwatsuki, 1994.]
Basionym: *Fissidens aegrotus* Bizot, 1976.

Fissidens badyinbarus Stone, J. Bryol. 17: 624. f. 3. 1993. [See Stone, I. G. & D. G. Catcheside, 1993.]
Type: Australia. "Queensland, Hinchinbrook Is." *I. G. Stone 24918*. Aug 4, 1988. Holotype: MEL. Paratype cited.

Fissidens brassii var. ***hebetatus*** (Catcheside) Stone, J. Bryol. 18: 161. 1994. [See Stone, I. G., 1994a.]
Basionym: *Fissidens hebetatus* Catcheside, 1980.

Fissidens brittonii var. ***percurrens*** Grout, N. Amer. Fl. 15: 169. 1943.
Other use: *Fissidens juruensis* var. *percurrens* (Grout) Pursell in A. J. Sharp, H. Crum & Eckel, 1994.

Fissidens curvatus var. ***inclinabilis*** (C. Müller ex Dixon) Beever in Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Fissidens inclinabilis* C. Müller ex Dixon, 1923.

Fissidens cymatophyllus C. Müller, Linnaea 42: 238. 1879.
Other use: *Fissidens ovatus* fo. *cymatophyllus* (C. Müller) Bizot ex Kis, 1984.

Fissidens dalamair H. Akiyama, Acta Phytotax. Geobot. 44: 21. f. 1. pl. 1–2. 1993. [See Akiyama, H., 1993b.]
Type: Indonesia. "West Kalimantan, western foot of Gunung (=Mt.) Niut, Kabupaten Sambas; en route from Dawar village to Mt. Niut, at crossing

point of Sungai (=River) Kato, in flowing water, 580 m alt." *Akiyama B-30730*. Dec 16, 1992. Holotype: KYO; isotypes: BM, BO, FH, L, NICH, NY.

Fissidens decipiens var. ***mucronatus*** Breidler ex Limpricht, Laubm. Deutschl. 1: 452. 1887.

Other use: *Fissidens dubius* var. *mucronatus* (Breidler ex Limpricht) Karttunen, Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, 1992.

Fissidens diplodus var. ***wainioi*** (C. Müller in Brotherus) Pursell in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 67. 1994, "*wainionis*." [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]

Basionym: *Moenkemeyera wainioi* C. Müller in Brotherus, 1891.

Fissidens dubius var. ***mucronatus*** (Breidler ex Limpricht) Karttunen, Hedenäs & L. Söderström in L. Söderström, Karttunen & Hedenäs, Ann. Bot. Fenn. 29: 120. 1992. [See Söderström, L., K. Karttunen & L. Hedenäs, 1992.]

Basionym: *Fissidens decipiens* var. *mucronatus* Breidler ex Limpricht, 1887.

Note: redundant combination in Ochyra, Fragm. Florist. Geobot. 38: 319. 1993.

Fissidens flabellulus var. ***eachamensis*** Stone, J. Bryol. 18: 177. f. 5. 1994. [See Stone, I. G., 1994b.]

Type: Australia. "Lake eacham N. P., Atherton Tableland, Qld, growing on earth banks of tracts around Lake Eacham." *I. G. Stone 25528*. Holotype: MEL. Paratypes cited.

Fissidens hadii Banu-Fattah, Bangladesh J. Bot. 24: 201. pl. 1. 1995. [See Banu-Fattah, K., 1995.]

Type: Bangladesh. "Chittagon: Hazarikhil Forest, on sandy soil." *Jesmine Akhter s.n.* Dec 3, 1976. Holotype: DUBH. Paratype cited.

Fissidens hebetatus Catcheside, Mosses S. Australia 77. f. 18. 1980.

Other use: *Fissidens brassii* var. *hebetatus* (Catcheside) Stone, 1994.

Fissidens humilis var. ***angustifolius*** Dixon, Bot. Not. 1937: 64. 1937.

Other use: *Fissidens linearis* var. *angustifolius* (Dixon) Stone, 1994.

Fissidens hyophilus var. ***palmerstonensis*** Stone, J. Bryol. 18: 159. 1994. [See Stone, I. G., 1994a.]

Type: Australia. "K-tree Road, Palmerston National Park, Queensland, growing on bark of trees [*sic*] buttress." *I. G. Stone 24487*. Holotype: MEL.

Fissidens inclinabilis C. Müller ex Dixon, New Zealand Inst. Bull. 3(3): 100. pl. 7: f. 2. 1923.

Other use: *Fissidens curvatus* var. *inclinabilis* (C. Müller ex Dixon) Beever in Fife, 1995.

Fissidens iwatsukii Bruggeman-Nannenga, Hikobia 11: 361. f. a–e. 1994. [See Bruggeman-Nannenga, M. A., 1994.]

Type: Indonesia. "Java. Nature monument Tjibodjas, rainforest. On ground in shade. Alt. 1510 m." *Dadi & Noerta 160*. Apr 5, 1949. Holotype: L.

Fissidens jimenezii E. B. Bartram in J. Jiménez, Publ. Univ. Santo Domingo, ser. 11, 92(4): 14. 1954. [See Bartram, E. B., 1954.]

Type: Dominican Republic. "Igua; sobre las rocas del lecho de una pequeña corriente de agua, lugar sombrío, alt. 960 m." *José Jiménez M37*. Aug 17, 1946. Herbarium not indicated.

Note: not in *Index Muscorum*.

Fissidens juruensis var. ***percurrens*** (Grout) Pursell in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 78. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]

Basionym: *Fissidens brittonii* var. *percurrens* Grout, 1943.

Fissidens linearis var. ***angustifolius*** (Dixon) Stone, J. Bryol. 18: 163. 1994. [See Stone, I. G., 1994a.]

Basionym: *Fissidens humilis* var. *angustifolius* Dixon, 1937.

Fissidens longiligulatus Brotherus & Watts, Proc. Linn. Soc. New South Wales 40: 367. 1915.

Other use: *Fissidens oblongifolius* var. *longiligulatus* (Brotherus & Watts) Bruggeman-Nannenga, Pursell & Iwatsuki, 1994.

Fissidens minutus var. ***pusillissimus*** (Steere) Pursell in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 53. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Basionym: *Fissidens pusillissimus* Steere, 1938.

Fissidens oblatus Stone & Catcheside, J. Bryol. 17: 621. f. 1–2. 1993. [See Stone, I. G. & D. G. Catcheside, 1993.]
Type: Australia. "Queensland, Grassy Hill, Cooktown." *I. G. Stone 19196.* Holotype: MEL. Paratypes cited.

Fissidens oblongifolius var. ***longiligulatus*** (Brotherus & Watts) Bruggeman-Nannenga, Pursell & Iwatsuki, J. Hattori Bot. Lab. 77: 265. 1994. [See Bruggeman-Nannenga, M. A., R. A. Pursell and Z. Iwatsuki, 1994.]
Basionym: *Fissidens longiligulatus* Brotherus & Watts, 1915.

Fissidens ovatus fo. ***cymatophyllus*** (C. Müller) Bizot ex Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Basionym: *Fissidens cymatophyllus* C. Müller, 1879.
Note: not in *Index of Mosses, 1963–1989.*

Fissidens pallidus var. ***caniensis*** Stone, J. Bryol. 18: 159. 1994. [See Stone, I. G., 1994a.]
Type: Australia. "Cania Gorge National Park, near Monto, Queensland, in thick, mats on vertical rocks under dripping water." *I. G. Stone 21070.* Holotype: MEL.

Fissidens papilliferus Brotherus, Hedwigia 45: 266. 1906.
Other use: *Fissidens pellucidus* var. *papilliferus* (Brotherus) Pursell, 1994.

Fissidens pellucidus var. ***asterodontius*** (C. Müller) Pursell, Bryologist 97: 262. 1994. [See Pursell, R. A., 1994a.]
Basionym: *Conomitrium asterodontium* C. Müller, 1851.

Fissidens pellucidus var. ***papilliferus*** (Brotherus) Pursell, Bryologist 97: 262. 1994. [See Pursell, R. A., 1994a.]
Basionym: *Fissidens papilliferus* Brotherus, 1906.

Fissidens pusillissimus Steere, Ann. Bryol. 10: 116. 1938.
Other use: *Fissidens minutus* var. *pusillissimus* (Steere) Pursell in A. J. Sharp, H. Crum & Eckel, 1994.

Fissidens townsendianus Pursell, Bryologist 97: 265. 1994. [See Pursell, R. A., 1994a.]
Replaced name: *Fissidens weirii* var. *insertus* Grout, 1943.

Fissidens viridulus var. ***pusillus*** Wilson, Bryol. Brit. 303. 1855.
Other use: *Fissidens bryoides* var. *pusillus* (Wilson) Pursell in B. H. Allen, 1994.

Fissidens weirii var. ***insertus*** Grout, N. Amer. Fl. 15: 179. 1943.
Other use: *Fissidens townsendianus* Pursell, 1994.

Fissidens yanoae Pursell, Hikobia 11: 357. f. 6–14. 1994. [See Pursell, R. A., 1994b.]
Type: Brazil. "São Paulo: Município de Arujá, Vertentes do Arujá, no base do tronco de árvore viva na mata." *Yano 3456.* Holotype: PAC; isotype: SP. Paratype cited.

FLORIBUNDARIA Fleischer, 1905.

Floribundaria sect. ***Trachycladiella*** Fleischer, Musci Buitenzorg 3: 826. 1908.
Other use: *Trachycladiella* (Fleischer) Menzel in Menzel & Schultze-Motel, 1994.

FUNARIA Hedwig, 1801.

Funaria macrocarpa (W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 278. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia macrocarpa* W. P. Schimper, 1836.

Funaria pertenella Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 88: 737. 1913.
Other use: *Entosthodon pertenella* (Brotherus) Kis, 1984.

Funaria subcuspidata Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 40: 171. 1898.
Other use: *Entosthodon submudus* var. *subcuspidatus* (Brotherus) Fife, 1995.

GAROVAGLIA Endlicher, 1836, *Carovaglia*.
Note: proposed for conservation; see Taxon 44: 617. 1995.

Garovaglia elegans var. ***musgraveae*** (Brotherus) During, Bryophyt. Biblioth. 12: 159. 1977.
Basionym: *Endotrichella musgraveae* Brotherus, 1899 [1900].
Note: incorrectly cited at the rank of form in *Index of Mosses, 1963–1989*.

GERTRUDIELLA Brotherus, 1925.

Gertrudiella validinervis var. ***serratopungens*** (Herzog) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 76. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gertrudia validinervis* var. *serratopungens* Herzog, 1916.

GLOSSADELPHUS Fleischer, 1923.

Glossadelphus ligulaefolius E. B. Bartram, Bryologist 49: 123. 1946.
Other use: *Phyllodon ligulaefolius* (E. B. Bartram) Menzel, 1992.

GOLLANIA Brotherus, 1908.
Notes: proposed for conservation; see Taxon 44: 618. 1995.

Gollania homalothecioides Higuchi & Wu Pan-cheng, J. Jap. Bot. 70: 239. f. 1. 1995. [See Higuchi, M. & Pan-Cheng Wu, 1995.]
Type: China. "Prov. Sichuan, Aba County, Mt. A-Yi La, 3700 m, on decaying wood." *S. He 31029*. Jun 1983. Holotype: PE; isotypes: NY, TNS.

GONIOMITRIUM J. D. Hooker & Wilson, 1846.

Goniomitrium seroi C. Casas, Orsis 8: 151. 1993. [See Casas, C., 1993.]
Type: Spain. "Almería: Sierra del Cabo de Gata, prope Cortijo del Monsul, UTM. 31SWF76." *C. Casas 2397*. Mar 23, 1972. Holotype: BCB.
Note: previously invalid, single element not cited as holotype (Article 37.3, *Tokyo Code*), in Acta Phytotax. Barcinon. 10: 13. f. 1. 1972.

GRIMMIA Hedwig, 1801.

Grimmia immersa Ochyra, Fragm. Florist. Geobot. Suppl. 2(1): 223. f. 3–4. 1993. [See Ochyra, R., 1993a.]
Type: New Zealand. "South Island. Canterbury. Mount Cook National Park, end of North Ridge, Mt. D'Archiac, elev. 6,100 ft." *W. D. Wilson 2314*. Holotype: CHR.

Grimmia perpilosa Ochyra, Fragm. Florist. Geobot. Suppl. 2(1): 220. f. 1–2. 1993. [See Ochyra, R., 1993a.]
Type: New Zealand. "South Island. Southland. Fiordland National Park, Gertrude Saddle, c. 4,000 ft." *John Child s.n.* Dec 23, 1974. Holotype: BM; isotype: KRAM.

GROUTIELLA Steere in H. Crum & Steere, 1950.

Groutiella elimbata (Thériot) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Micromitrium elimbatum* Thériot, 1930.

GYMNOSTOMIELLA Fleischer, 1904.

Gymnostomiella rosulata Potier de la Varde, Rev. Bryol. Lichénol. 26: 1. f. 1. 1957.
Other use: *Barbula semirosulata* Zander, 1993.

GYMNOSTOMUM Nees & Hornschuch in Nees, Hornschuch & Sturm, 1823, conserved name.

Gymnostomum areolatum Knight, Trans. & Proc. New Zealand Inst. 7: 355. pl. 28: f. 5. 1875.
Other use: *Tortula areolata* (Knight) Fife, 1995.

Gymnostomum brevicaule Taylor, London J. Bot. 5: 42. 1846.
Other use: *Microbryum brevicaule* (Taylor) Zander, 1993.

Gymnostomum conicum Schleicher ex Schwägrichen, Sp. Musc. Frond., Suppl. 1, 1: 26. pl. 9. 1811.
Other use: *Microbryum davallianum* var. *conicum* (Schleicher ex Schwägrichen) Zander, 1993.

Gymnostomum davallianum Smith in Drake, Ann. Bot. (König & Sims) 1: 577. 1805.
Other use: *Microbryum davallianum* (Smith in Drake) Zander, 1993.
Gymnostomum heimii Hedwig, Sp. Musc. Frond. 32. 1801.
Other use: *Hennediella heimii* (Hedwig) Zander, 1993.
Gymnostomum hymenostylioides (Brotherus & Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 153. 1993. [See Zander, R. H., 1993b.]
Basionym: *Merceyopsis hymenostylioides* Brotherus & Dixon, 1910.
Gymnostomum intermedium Turner, Muscol. Hibern. Spic. 7. pl. 1: f. a–c. 1804.
Other use: *Tortula modica* Zander, 1993.
Gymnostomum keniae Potier de la Varde, Rev. Bryol. Lichénol. 22: 10. f. 4. 1953.
Other use: *Anoectangium keniae* (Potier de la Varde) Zander, 1993.
Gymnostomum lanceolatum Cano, Ros & J. Guerra, Nova Hedwigia 59: 143. 1994. [See Cano, M. J., R. M. Ros & J. Guerra, 1994.]
Type: Spain. "Almeria, Lucainena de las Torres, Cerro de las Cuevas, WF 8498, 300 m, tiefgründiger Boden unter *Stipa tenacissima*." *Martínez-Sánchez, Ros & Guerra s.n.* Apr 7, 1988. Holotype: MUB; isotype: MUB. Paratypes cited.
Gymnostomum longirostre Griffith, Calcutta J. Nat. Hist. 2: 480. 1842.
Other use: *Trichostomum contractum* Zander, 1993.
Gymnostomum patulum Knight, Trans. & Proc. New Zealand Inst. 7: 354. pl. 28: f. 1. 1875.
Other use: *Weissia patula* (Knight) Fife, 1995.
Gymnostomum recurvum Griffith, Calcutta J. Nat. Hist. 2: 482. 1842.
Other use: *Bellibarbula recurva* (Griffith) Zander, 1993.
Gymnostomum rupestre var. ***obtusifolium*** Kindberg, Nuovo Giorn. Bot. Ital. 25: 116. 1893. [See Kindberg, N. C., 1893.]
Type: Italy. "Faido, . . . près de la grand chûte (cascade de Piumogna)." *N. C. Kindberg s.n.* 1892.
Note: not in *Index Muscorum*.
Gymnostomum truncatum var. ***brevirostre*** Lisa, Elenc. Musch. 16. 1837.
Other use: *Tortula truncata* var. *brevirostris* (Lisa) Zander, 1993.
Gymnostomum wilsonii W. J. Hooker, Bot. Misc. 1: 143. pl. 41: f. 1–8. 1829.
Other use: *Tortula wilsonii* (W. J. Hooker) Zander, 1993.
GYROWEISIA W. P. Schimper, 1876, conserved name.
Gyroweisia latifolia Dixon, S. African J. Sci. 18: 309. 1922.
Other use: *Didymodon tophaceopsis* Zander, 1993.
Gyroweisia nigeriana Egunyomi & Olarinmoye, Bryologist 81: 443. f. 1–9. 1978.
Other use: *Weisiopsis nigeriana* (Egunyomi & Olarinmoye) Zander, 1993.
HEDWIGIA Palisot de Beauvois, 1804, conserved name.
Hedwigia stellata Hedenäs, J. Bryol. 18: 144. f. 1–2. 1994. [See Hedenäs, L., 1994.]
Type: Sweden. "Skåne, Ö. Broby, Sanatoriet." *Hj. Moller s.n.* "8/5 1918." Holotype: S; isotypes: BM, G.
HENNEDIELLA Paris, 1896.
Hennediella acletoi (H. Robinson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 247. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula acletoi* H. Robinson, 1971.
Hennediella acutidentata (Cardot & Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia acutidentata* Cardot & Thériot, 1916.
Hennediella angustifolia (Herzog) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Calyptopogon angustifolius* Herzog, 1910.

Hennediella arenae (Bescherelle) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula arenae* Bescherelle, 1885.

Hennediella arenae var. ***petriei*** (Brotherus ex Beckett) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula petriei* Brotherus ex Beckett, 1896 [1897].

Hennediella bellii (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993, "*bellei*." [See Zander, R. H., 1993b.]
Basionym: *Desmatodon bellii* E. B. Bartram, 1955.

****Hennediella brevis*** Fubar.
*incorrectly placed under "*Hennediella*" by Zander (1993).
Correct name: *Tortula brevis* H. Whitehouse & Newton, 1988.

Hennediella densifolia (W. J. Hooker & Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula densifolia* W. J. Hooker & Wilson, 1844.

Hennediella denticulata (Wilson in Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula denticulata* Wilson in Mitten, 1851.

Hennediella heimii (Hedwig) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum heimii* Hedwig, 1801.

Hennediella heimii var. ***alpina*** (Amann) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *alpina* Amann, 1921.

Hennediella heimii var. ***arctica*** (Lindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *arctica* Lindberg, 1866 [1867].

Hennediella heimii var. ***brachyphylla*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *brachyphylla* Warnstorf, 1916.

Hennediella heimii var. ***brevicuspis*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *brevicuspis* Warnstorf, 1916.

Hennediella heimii var. ***breviseta*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *breviseta* Warnstorf, 1916.

Hennediella heimii var. ***drummondii*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *drummondii* Warnstorf, 1916.

Hennediella heimii var. ***eurystoma*** (Cardot & Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *eurystoma* Cardot & Brotherus, 1923.

Hennediella heimii var. ***guessfeldtii*** (Schliephacke) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia guessfeldtii* Schliephacke, 1884.

Hennediella heimii var. ***lanceolata*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *lanceolata* Warnstorf, 1916.

Hennediella heimii var. ***magellanica*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *magellanica* Warnstorf, 1916.

Hennediella heimii var. ***maxima*** (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]

Basionym: *Pottia heimii* var. *maxima* Cardot, 1905.

Hennediella heimii var. ***spegazzinii*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia spegazzinii* C. Müller, 1885.

Hennediella heimii var. ***thaxteri*** (Cardot & Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia heimii* var. *thaxteri* Cardot & Thériot, 1930.

Hennediella heteroloma (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula heteroloma* Cardot, 1910.

Hennediella heteroloma var. ***eckeliae*** (Zander) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula eckeliae* Zander, 1985 [1986].

Hennediella kunzeana (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula kunzeana* C. Müller, 1843.

Hennediella limbata (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula limbata* Mitten, 1851.

Hennediella longipedunculata (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula longipedunculata* C. Müller, 1849.

Hennediella longirostris (Hampe ex C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia longirostris* Hampe ex C. Müller, 1849.

Hennediella marginata (W. J. Hooker & Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Schistidium marginatum* W. J. Hooker & Wilson, 1844.

Hennediella oedipodioides (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia oedipodioides* C. Müller, 1883.

Hennediella polyseta (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula polyseta* C. Müller, 1897.

Hennediella serrulata (W. J. Hooker & Greville) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula serrulata* W. J. Hooker & Greville, 1824.

Hennediella steereana (Zander & H. Crum) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 248. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon steereanus* Zander & H. Crum, 1977 [1978].

HOLODONTIUM (Mitten) Brotherus, 1924.

Holodontium strictum (W. J. Hooker & Wilson) Ochyra, Fragm. Florist. Geobot. 38: 84. 1993. [See Ochyra, R., 1993b.]
Basionym: *Weissia stricta* W. J. Hooker & Wilson, 1844.

HOLOMITRIUM Bridel, 1826, conserved orthography, "*Olomitrium*."

Holomitrium aberrans Frahm, Trop. Bryol. 9: 95. f. 3–4. 1994. [See Frahm, J.-P., 1994c.]
Type: Colombia. "Dep. Risarald. West side of Cordillera Occidental. Along trail from Jeguadas to Puerto de Oro, W of Mistrato. Lower montane rainforest, canopy ca. 15 m, 1500 m." *Frahm 92151*. Jul 25, 1992. Holotype: MO; isotypes: COLO, herb. Frahm. Paratypes cited.

HOMALIA W. P. Schimper, 1860, "*Omalia*."
Note: proposed for conservation; see Taxon 44: 618. 1995.

Homalia japonica Bescherelle, J. Bot. (Morot) 13: 39. 1899.
Other use: *Homalia trichomanoides* var. *japonica* (Bescherelle) He Si in He Si & Enroth, 1995.

Homalia pennatula (Mitten ex Dixon) He Si & Enroth, Novon 5: 334. 1995. [See He, Si & J. Enroth, 1995.]
Basionym: *Stereodon pennatulus* Mitten ex Dixon, 1914.

Homalia trichomanoides var. ***japonica*** (Bescherelle) He Si in He Si & Enroth, Novon 5: 335. 1995. [See He, Si & J. Enroth, 1995.]
Basionym: *Homalia japonica* Bescherelle, 1899.

HOMALIODENDRON Fleischer, 1906.

Homaliodendron neckeroides Brotherus, Symb. Sin. 4: 88. 1929.
Other use: *Neckera neckeroides* (Brotherus) Enroth & B. C. Tan, 1994.

HOMOMALLIUM (W. P. Schimper) Loeske, 1907.

Homomallium andoi Higuchi, Nishimura & Inoue, J. Bryol. 18: 297. f. 1–3. 1994. [See Higuchi, M., N. Nishimura & S. Inoue, 1994.]
Type: Pakistan. "Azad Kashmir: Muzaffarabad, Gholia Khori, 830 m alt., on shaded, moist soil near by small stream." *Nishimura 9308*. Sep 3, 1991. Holotype: TNS; isotypes: HIRO, HIRU, NY.

HONDAELLA Dixon & Sakurai, 1938.

Hondaella caperata (Mitten) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 357. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Stereodon caperatus* Mitten, 1859.

HOOKERIA Smith, 1808, conserved name.

Hookeria diatomophila C. Müller, Hedwigia 37: 247. 1898.
Other use: *Schizomitrium diatomophilum* (C. Müller) B. H. Allen & Crosby, 1986.

Hookeria glandulifera Hampe, Linnaea 32: 156. 1863.
Other use: *Trachyxiphium glanduliferum* (Hampe) Churchill & Linares C., 1995.

HORIKAWAEA Noguchi, 1937.

Horikawaea redfearnii B. C. Tan & Lin Pang-juan, Trop. Bryol. 10: 59. f. 3–7, 19–25. 1995. [See Tan, B. C. & Pang-juan Lin, 1995.]
Type: Philippines. "Palawan Island, Aborlan Municipality, Barangay Aporawan, Mt. Tinikbasan, on tree trunk in disturbed *Agathis-Ficus-Calamus-Panandus* lowland dry forest, ca. 2000 ft." *B. C. Tan 92-379*. Apr 1992. Holotype: FH; isotypes: CAHUP, L, BM, H, MO, NY, US, IBSC, BO. Other indicated distribution: China (Hainan).

HUSNOTIELLA Cardot, 1909.

Husnotiella plicata Magill, Fl. S. Africa, Bryophyta, Mosses 1: 222. f. 64: 10–18. 1981 [1982].
Other use: *Didymodon jackvancei* Zander, 1993.

HYDROGONIUM (C. Müller) Jaeger, 1880.

Hydrogonium dixonianum Chen Pan-chieh, Hedwigia 80: 250. 1941.
Replaced name: *Barbula inflexa* Dixon, 1929.
Blocking name: *Barbula inflexa* (Duby in Moritzi) C. Müller, 1849.
Other use: *Barbula dixoniana* (Chen Pan-chieh) Redfearn & B. C. Tan, 1995.

Hydrogonium javanicum var. ***kurzii*** (C. Müller) Gangulee, Mosses E. India 738. 1972. [See Gangulee, H. C., 1972.]
Basionym: *Barbula kurzii* C. Müller, 1872.
Note: not in *Index of Mosses, 1963–1989*.

HYMENOSTOMUM R. Brown, 1819.

Hymenostomum anomalum Brotherus in Herzog, Biblioth. Bot. 87: 29. 1916.
Other use: *Trichostomum ovatifolium* Zander, 1993.

Hymenostomum castaneum H. Crum & Steere, Amer. Midl. Naturalist 60: 12. 1958.
Other use: *Trichostomum castaneum* (H. Crum & Steere) Zander, 1993.

Hymenostomum eckendorfii Potier de la Varde, Rev. Bryol. Lichénol. 11: 170. f. II: 1. 1939.
Other use: *Tortella eckendorffii* (Potier de la Varde) Zander, 1993.

Hymenostomum flavescens Britton in N. L. Britton & Millspaugh, Bahama Fl. 485. 1920.
Other use: *Trichostomum brittonianum* Zander, 1993.
Hymenostomum pulicare Bescherelle, Ann. Sci. Nat. Bot., sér. 6, 9: 299. 1880.
Other use: *Trichostomum pulicare* (Bescherelle) Zander, 1993.
Hymenostomum riograndense Brotherus, Bih. Kongl. Svenska Vetensk.-Akad. Handl., 26 Afd., 3(7): 19. 1900.
Other use: *Weissia riograndensis* (Brotherus) Zander, 1993.
Hymenostomum striatum Geheeb & Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 84. 1879.
Other use: *Weissia glazioui* Zander, 1993.
HYMENOSTYLIUM Bridel, 1827.
Hymenostylium hildebrandtii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 127. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia hildebrandtii* C. Müller, 1876.
Hymenostylium shepheardae Cardot & Dixon, J. Bot. 48: 307. pl. 508: f. 10. 1910.
Other use: *Anoectangium shepherdae* (Cardot & Dixon) Zander, 1993.
HYOPHILA Bridel, 1827.
Note: proposed for conservation; see Taxon 44: 619. 1995.
****Hyophila acuminata*** E. B. Bartram, Rev. Bryol. Lichénol. 23: 245. 1954.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Hyophila acuminata* Brotherus & Potier de la Varde, 1920.
Correct name: *Hyophila acutipocsii* B. C. Tan & Iwatsuki, 1993.
Hyophila acutipocsii B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 357. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Replaced name: *Hyophila acuminata* E. B. Bartram, 1954.
Blocking name: *Hyophila acuminata* Brotherus & Potier de la Varde, 1920.
Hyophila acutiuscula Brotherus, Bot. Jahrb. Syst. 20: 183. 1894.
Other use: *Trichostomum acutiusculum* (Brotherus) Zander, 1993.
Hyophila aristatula Brotherus, Akad. Wiss. Wien, Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 131: 211. 1923.
Other use: *Trichostomum zanderi* Redfearn & B. C. Tan, 1995.
Hyophila barbuloides Brotherus, Symb. Sin. 4: 37. 1929.
Other use: *Trichostomum sinochenii* Redfearn & B. C. Tan, 1995.
Hyophila clavicostata Renauld & Cardot, Actes Soc. Linn. Bordeaux 53: 21. 1898.
Other use: *Barbula clavicostata* (Renauld & Cardot) Zander, 1993.
Hyophila cucullatifolia Gao Chien, Jia Xue-yi & Cao Tong, Bull. Bot. Res., Harbin 11(2): 29. f. 1–10. 1991.
Other use: *Weisiopsis cucullatifolia* (Gao Chien, Jia Xue-yi & Cao Tong) Zander, 1993.
Hyophila ligulaefolia Brotherus & Paris, Rev. Bryol. 31: 44. 1904.
Other use: *Trichostomum ligulaefolium* (Brotherus & Paris) Zander, 1993.
Hyophila perannulata Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 60. 1896.
Other use: *Trichostomum criotum* Zander, 1993.
Hyophila somaliae C. Müller, Linnaea 40: 293. 1876.
Other use: *Tortella somaliae* (C. Müller) Zander, 1993.
Hyophila stomatodonta Cardot, Rev. Bryol. 36: 76. 1909.
Other use: *Plaubelia sprengelii* var. *stomatodonta* (Cardot) Zander, 1993.
Hyophila urceolaris Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 2: 259. 1870.
Other use: *Trichostomum urceolare* (Hampe) Zander, 1993.
Hyophila walkeri Brotherus, Rec. Bot. Surv. India 1: 317. 1899.
Other use: *Tortella walkeri* (Brotherus) Zander, 1993.

HYOPHILADELPHUS (C. Müller) Zander, Bryologist 98: 372. 1995. [See Zander, R. H., 1995.]
Basionym: *Barbula* sect. *Hyophiladelphus* C. Müller, 1849.

Hyophiladelphus agrarius (Hedwig) Zander, Bryologist 98: 372. 1995. [See Zander, R. H., 1995.]
Basionym: *Barbula agraria* Hedwig, 1801.

HYOPHILOPSIS Cardot & Dixon, J. Bot. 49: 137. 1911.

Hyophilopsis entosthodontacea Cardot & Dixon, J. Bot. 49: 137. pl. 513: f. 1. 1911.
Other use: *Tortula entosthodontacea* (Cardot & Dixon) Zander, 1993.

HYPNUM Hedwig, 1801, conserved name.

Hypnum arzobispoae C. Müller, Flora 58: 553. 1875.
Other use: *Cyrto-hypnum arzobispoae* (C. Müller) Churchill & Linares C., 1995.

Hypnum bello-intricatum Brotherus, Bot. Jahrb. Syst. 24: 279. 1897.
Other use: *Schimperella bello-intricata* (Brotherus) W. R. Buck, 1993.

Hypnum cupressiforme var. ***townsendii*** Ando, Hikobia 11: 267. f. 69: N, 70–71. 1993. [See Ando, H., 1993.]
Type: Kenya. "North Nyeri District, at base of large tree in forest along the Sirimon Track, Mount Kenya, alt. c. 2,970 m." *C. C. Townsend 75/808.* Apr 5, 1975. Holotype: E; isotypes: HIRO, herb. Townsend. Other indicated distribution: Uganda, Zaïre.

Hypnum cupressiforme var. ***yushanicum*** Ando, Hikobia 11: 265. f. 69: A–M. 1993. [See Ando, H., 1993.]
Type: China. "Taiwan: Nan-tow Hsien, Pa-tung-kan – Mt. Yu Shan, 3,115 m, on dead trunk of *Tsuga chinensis*." *L. Nakanishi 13138.* Mar 19, 1963. Holotype: HIRO; isotype: UBC. Paratypes cited.

Hypnum estrellae C. Müller, Syn. Musc. Frond. 2: 275. 1851.
Replaced name: *Leskea cylindrica* Hornschuch, 1840.
Blocking name: *Leskea cylindrica* Bridel, 1812.
Other use: *Acroporium estrellae* (C. Müller) W. R. Buck & Schäfer-Verwimp, 1991 [1993].

Hypnum fasciculatum Swartz ex Hedwig, Sp. Musc. Frond. 245. pl. 62: f. 8–10. 1801.
Other use: *Thamnobryum fasciculatum* (Swartz ex Hedwig) Sastre-de Jesús in Sastre-de Jesús & W. R. Buck, 1993.

****Hypnum flagellare*** (T. Koponen & Norris) Chiang Tzen-yuh, Bot. Bull. Acad. Sin., n.s., 36: 151. 1995. [See Chiang, Tzen-Yuh, 1995.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*), "*flagellaris*."
Basionym: *Leptocladiella flagellaris* T. Koponen & Norris, 1985.
Earlier name: *Hypnum flagellare* Hedwig, 1801.

Hypnum fluitans var. ***nigricans*** Bridel, Bryol. Univ. 2: 629. 1827.
Other use: *Warnstorfia exannulata* var. *nigricans* (Bridel) Ochyra, 1995.

Hypnum frontinoae C. Müller, Flora 58: 552. 1875.
Other use: *Cyrto-hypnum frontinoae* (C. Müller) Churchill & Linares C., 1995.

Hypnum glaziovii Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 174. 1875.
Other use: *Sematophyllum glaziovii* (Hampe) Yano, 1989.

Hypnum heseleri Ando & Higuchi, J. Hattori Bot. Lab. 75: 98. f. 1–2. 1994. [See Ando, H. & M. Higuchi, 1994.]
Type: Germany. "Saarland, ca. 10 km east of Saarbrücken, in a small side-valley of Grumbachtal, 240 m alt., TK 6708/315." *U. Heseler s.n.* Feb 15, 1989. Holotype: B; isotypes: DUIS, GRO, HIRO, L, SAAR. Paratypes cited.

Hypnum hexastichum Schwägrichen, Sp. Musc. Frond., Suppl. 1, 2: 210. 1816.
Other use: *Orthostichella hexasticha* (Schwägrichen) W. R. Buck, 1994.

Hypnum holmenii Ando, Hikobia 11: 365. f. 2–3. 1994. [See Ando, H., 1994.]
Type: Canada. "Yukon: Old Crow area, ca. 6 miles east of the village on the

north bank of the Porcupine River along small lake, 67°34'N, 139°42'W, 253 m." *D. H. Vitt 18577*. Jul 2, 1977. Holotype: ALTA; isotype: HIRO. Other indicated distribution: Canada (British Columbia, Northwest Territories), Finland, Greenland, U.S.A. (Alaska).

Hypnum megasporum Duby, Flora 60: 94. 1877.
Other use: *Macrohymenium megasporum* (Duby) Kis, 1984.

Hypnum nanopyxis C. Müller ex Geheeb, Abh. Naturwiss. Vereine Bremen 7: 212. 1881.
Other use: *Sematophyllum nanopyxis* (C. Müller ex Geheeb) O'Shea, 1995.

Hypnum pentastichum Bridel, Muscol. Recent. 2(2): 100. pl. 3: f. 3. 1801.
Other use: *Orthostichella pentasticha* (Bridel) W. R. Buck, 1994, *Pseudopilotrichum pentastichum* (Bridel) W. R. Buck & B. H. Allen in W. R. Buck, 1994.

Hypnum pervilleanum C. Müller ex Geheeb, Abh. Naturwiss. Vereine Bremen 7: 212. 1881.
Other use: *Trichosteleum pervilleanum* (C. Müller ex Geheeb) W. R. Buck, 1993.

Hypnum pseudopiliferum Hampe, Ann. Sci. Nat. Bot., sér. 5, 5: 324. 1866.
Other use: *Brachythecium pseudopiliferum* (Hampe) Thériot, 1936.

Hypnum rigidum var. ***braunianum*** Bosch & Sande Lacoste, Bryol. Jav. 2: 140. pl. 238: B. 1865.
Other use: *Mastopoma brauniana* (Bosch & Sande Lacoste) H. Akiyama, 1993.

Hypnum sarmentosum Wahlenberg, Fl. Lapp. 380. 1812.
Other use: *Warnstorfia sarmentosa* (Wahlenberg) Hedenäs, 1993.

Hypnum stramineum Dickson ex Bridel, Muscol. Recent. 2(2): 172. 1801.
Other use: *Straminergon stramineum* (Dickson ex Bridel) Hedenäs, 1993.

Hypnum tenuivagum Brotherus, Bot. Jahrb. Syst. 24: 279. 1897.
Other use: *Eurhynchium tenuivagum* (Brotherus) W. R. Buck, 1993.

Hypnum wallichii Bridel, Bryol. Univ. 2: 416. 1827.
Other use: *Pseudotrachypus wallichii* (Bridel) W. R. Buck, 1994.

HYPOPTERYGIUM Bridel, 1827.

Hypopterygium convolutaceum C. Müller, Syn. Musc. Frond. 2: 13. 1850.
Other use: *Racopilum cuspidigerum* var. *convolutaceum* (C. Müller) Zanten & Dijkstra in Zanten & A. Hofman, 1995.

ISOPTERYGIUM Mitten, 1869.

Isopterygium elegans var. ***laetevirens*** Dixon & Luisier ex F. Koppe & Düll, Bryol. Beitr. 6: 45. 1986.
Other use: *Pseudotaxiphyllum laetevirens* (Dixon & Luisier ex F. Koppe & Düll) Hedenäs, 1992.
Note: not in *Index of Mosses, 1963–1989*; previously invalid, no Latin description (Article 36.1, *Tokyo Code*), in Persson, Commentat. Biol. 8(7): 14. 1941.

ISOTHECIUM Bridel, 1827.

Isothecium trichophorum Montagne, Ann. Sci. Nat. Bot., sér. 2, 19: 238. 1843.
Other use: *Dicladiella trichophora* (Montagne) Redfearn & B. C. Tan, 1995.

KIAERIA I. Hagen, 1915.

Kiaeria pumila (Mitten in J. D. Hooker) Ochyra, Fragm. Florist. Geobot. 38: 79. 1993. [See Ochyra, R., 1993b.]
Basionym: *Symblepharis pumila* Mitten in J. D. Hooker, 1867.

KLEIOWEISIOPSIS Dixon, 1920.

Kleioweisiopsis involuta Bizot ex Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Bizot, M., 1974.]
Type: Tanzania. "Sringa District, epiphyte in montain, near Ulele village, 2000 m." *E. W. Ganes & T. Pócs 6317/c*. Holotype: herb. Bizot; isotype: herb. Pócs. Cited as "lectotype" and "paratype," respectively.
Other use: *Weissia bizotii* Zander, 1993.
Note: invalid, single element not cited as holotype (Article 37.3, *Tokyo Code*), in Rev. Bryol. Lichénol. 40: 119. pl. 11. 1974.

LEPIDOPILUM (Bridel) Bridel, 1827, conserved name.

Lepidopilum denticulatum (Thériot) F. D. Bowers in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 801. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Basionym: *Amblytropis denticulata* Thériot, 1940.

Lepidopilum imbricatifolium Mitten, J. Linn. Soc., Bot. 12: 372. 1869.
Other use: *Symphyodon imbricatifolius* (Mitten) Churchill, 1994.

LEPTOCLADIELLA Fleischer, 1923.

Leptocladiella flagellaris T. Koponen & Norris, Acta Bot. Fenn. 131: 58. f. 2–4. 1985.
Other use: *Hypnum flagellare* (T. Koponen & Norris) Chiang Tzen-yuh, 1995.

LESCURAEA Bruch & W. P. Schimper in B.S.G., 1851.

Lescuraea morrisonensis fo. ***sichuanensis*** Wang Yu-fang, Hu Ren-liang & Redfearn, Bryologist 96: 640. f. 1. 1993. [See Wang, You Fang, Ren-Liang Hu & P. L. Redfearn, Jr., 1993.]
Type: China. "Sichuan Province. Li. Co.: at base of fir, in fir forest with dense understory of *Rhododendron*, adjacent to an old logging slide, 4,270–4,300 m." *Redfearn 34969*. Holotype: HSNU; isotypes: FH, MO, NY, SMS.

****Lescuraea sichuanensis*** Wang Yu-fang, Hu Ren-liang & Redfearn, Chenia 2: 131. 1994. [See Wang You-fang, Hu Ren-liang & P. L. Redfearn, 1994.]
*invalid, no Latin description (Article 36.1, *Tokyo Code*).

LESKEA Hedwig, 1801.

Leskea borbonica Bélanger, Voy. Indes Or. 2 (Crypt.): 97. 1846.
Other use: *Radulina borbonica* (Bélanger) W. R. Buck, 1993.

Leskea imponderosa Taylor, London J. Bot. 5: 62. 1846.
Other use: *Loxotis imponderosa* (Taylor) W. R. Buck, 1994, *Toloxis imponderosa* (Taylor) W. R. Buck, 1994.

LESKEODON Brotherus, 1907.

Leskeodon elongatus (Mitten) Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 307. 1995. [See Churchill, S. P. & E. L. Linares C., 1995a.]
Basionym: *Distichophyllum elongatum* Mitten, 1869.

LEUCOBRYUM Hampe, 1839.

Leucobryum aduncum var. ***teysmannianum*** (Dozy & Molkenboer) Yamaguchi, J. Hattori Bot. Lab. 73: 33. 1993. [See Yamaguchi, T., 1993.]
Basionym: *Leucobryum teysmannianum* Dozy & Molkenboer, 1855.

Leucobryum aduncum var. ***tjibodense*** (Fleischer) Ochyra, Fragm. Florist. Geobot. 39: 666. 1994. [See Ochyra, R., 1994.]
Basionym: *Leucobryum scalare* var. *tjibodense* Fleischer, 1904.

Leucobryum antillarum var. ***polakowskyi*** (C. Müller ex Bescherelle) Peterson in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 175. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Basionym: *Ochrobryum polakowskyi* C. Müller ex Bescherelle, 1897.

Leucobryum cyathifolium Dixon, J. Linn. Soc., Bot. 45: 499. 1922.
Other use: *Leucobryum javense* var. *cyathifolium* (Dixon) Yamaguchi, 1993.

Leucobryum incurvifolium C. Müller, Bull. Herb. Boissier 5: 174. 1897.
Other use: *Terrestria incurvifolia* (C. Müller) Peterson in A. J. Sharp, H. Crum & Eckel, 1994.

Leucobryum javense var. ***cyathifolium*** (Dixon) Yamaguchi, J. Hattori Bot. Lab. 73: 28. 1993. [See Yamaguchi, T., 1993.]
Basionym: *Leucobryum cyathifolium* Dixon, 1922.

Leucobryum javense var. ***novae-guineae*** (E. B. Bartram) Yamaguchi, J. Hattori Bot. Lab. 73: 29. 1993. [See Yamaguchi, T., 1993.]
Basionym: *Leucobryum novae-guineae* E. B. Bartram, 1953.

Leucobryum javense var. ***uncinatum*** (Fleischer) Yamaguchi, J. Hattori Bot. Lab. 73: 29. 1993. [See Yamaguchi, T., 1993.]
Basionym: *Leucobryum uncinatum* Fleischer, 1904.
Leucobryum novae-guineae E. B. Bartram, Svensk Bot. Tidskr. 47(3): 397. 1953.
Other use: *Leucobryum javense* var. *novae-guineae* (E. B. Bartram) Yamaguchi, 1993.
Leucobryum papuense var. ***pendulum*** Zanten, Nova Guinea, Bot. 10(16): 275. 1964.
Other use: *Leucobryum sanctum* var. *pendulum* (Zanten) Ochyra, 1994.
Leucobryum sanctum var. ***pendulum*** (Zanten) Ochyra, Fragm. Florist. Geobot. 39: 666. 1994. [See Ochyra, R., 1994.]
Basionym: *Leucobryum papuense* var. *pendulum* Zanten, 1964.
Leucobryum scalare var. ***tjibodense*** Fleischer, Musci Buitenzorg 1: 145. 1904.
Other use: *Leucobryum aduncum* var. *tjibodense* (Fleischer) Ochyra, 1994.
Leucobryum teysmannianum Dozy & Molkenboer, Bryol. Jav. 1: 17. pl. 15 [right side]. 1855.
Other use: *Leucobryum aduncum* var. *teysmannianum* (Dozy & Molkenboer) Yamaguchi, 1993.
Leucobryum uncinatum Fleischer, Musci Buitenzorg 1: 149. 1904.
Other use: *Leucobryum javense* var. *uncinatum* (Fleischer) Yamaguchi, 1993.
LEUCODON Schwägrichen, 1816.
Leucodon esquirolii var. ***latifolius*** (Brotherus) Zhang Man-xiang, Acta Bot. Boreal.-Occid. Sin. 2: 23. 1982. [See Zhang, M., 1982.]
Basionym: *Leucodon latifolius* Brotherus, 1924.
Note: not in *Index of Mosses, 1963–1989*.
Leucodon latifolius Brotherus, Akad. Wiss. Wien, Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 1, 133: 572. 1924.
Other use: *Leucodon esquirolii* var. *latifolius* (Brotherus) Zhang Man-xiang, 1982.
LEUCOLOMA Bridel, 1829, conserved name.
Leucoloma guehoi Tixier, Proc. Roy. Soc. Arts Sci. Mauritius 5: 41. f. 1. 1993. [See Tixier, P., 1993.]
Type: Mauritius. "Valley above '500 foot falls' on Rivière des Galets, growing on wet rock of rivulet at the top of the valley." *J. Guéhe 424*. Holotype: MAU. Paratypes cited.
LEUCOPHANES Bridel, 1827.
Leucophanes sect. ***Leionotus*** C. Müller, J. Mus. Godeffroy 3(6): 58. 1874.
Other use: *Leucophanes* subgen. *Leionotus* (C. Müller) Salazar Allen, 1993.
Leucophanes subgen. ***Leionotus*** (C. Müller) Salazar Allen, Bryophyt. Biblioth. 46: 95. 1993. [See Salazar Allen, N., 1993.]
Basionym: *Leucophanes* sect. *Leionotus* C. Müller, 1874.
Leucophanes sect. ***Trachynotus*** C. Müller, J. Mus. Godeffroy 3(6): 57. 1874.
Other use: *Leucophanes* subgen. *Trachynotus* (C. Müller) Salazar Allen, 1993.
Leucophanes subgen. ***Trachynotus*** (C. Müller) Salazar Allen, Bryophyt. Biblioth. 46: 100. 1993. [See Salazar Allen, N., 1993.]
Basionym: *Leucophanes* sect. *Trachynotus* C. Müller, 1874.
Leucophanes glaucum subsp. ***nukahivense*** (Bescherelle) Salazar Allen, Bryophyt. Biblioth. 46: 106. 1993. [See Salazar Allen, N., 1993.]
Basionym: *Leucophanes nukahivense* Bescherelle, 1894.
****Leucophanes glaucum*** subsp. ***vittii*** Salazar Allen, Bryophyt. Biblioth. 46: 107. 1993. [See Salazar Allen, N., 1993.]
*invalid, no Latin description (Article 36.1, *Tokyo Code*).

Leucophanes milleri Salazar Allen, Bryophyt. Biblioth. 46: 74. f. 45–46, 174–195. 1993. [See Salazar Allen, N., 1993.]
Type: Belau. "Palau. Forested hills beyond Cocoa Plantation Babelthuap, Ngatpang. Altitude 400–500 feet." *Miller 8106*. Holotype: MU; isotype: MU. Paratypes cited.

Leucophanes nukahivense Bescherelle, Ann. Sci. Nat. Bot., sér. 7, 20: 20. 1894.
Other use: *Leucophanes glaucum* subsp. *nukahivense* (Bescherelle) Salazar Allen, 1993.

****Leucophanes octoblepharioides*** subsp. ***meijeri*** Salazar Allen, Bryophyt. Biblioth. 46: 68. 1993. [See Salazar Allen, N., 1993.]
*invalid, no Latin description (Article 36.1, *Tokyo Code*).

****Leucophanes octoblepharioides*** subsp. ***whittieri*** Salazar Allen, Bryophyt. Biblioth. 46: 69. 1993. [See Salazar Allen, N., 1993.]
*invalid, no Latin description (Article 36.1, *Tokyo Code*).

***LOXOTIS** W. R. Buck, J. Hattori Bot. Lab. 75: 59. 1994. [See Buck, W. R., 1994a.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Loxotis* R. Brown ex Bentham, 1835.
Correct name: *Toloxis* W. R. Buck, 1994.
Original placement: Meteoriaceae.

Loxotis borchgrevinkii (Kiaer ex C. Müller) W. R. Buck, J. Hattori Bot. Lab. 75: 59. 1994. [See Buck, W. R., 1994a.]
Basionym: *Papillaria borchgrevinkii* Kiaer ex C. Müller, 1890.

Loxotis imponderosa (Taylor) W. R. Buck, J. Hattori Bot. Lab. 75: 59. 1994. [See Buck, W. R., 1994a.]
Basionym: *Leskea imponderosa* Taylor, 1846.

Loxotis semitorta (C. Müller) W. R. Buck, J. Hattori Bot. Lab. 75: 59. 1994. [See Buck, W. R., 1994a.]
Basionym: *Neckera semitorta* C. Müller, 1851.

MACROGLOSSUM Hilpert, 1933.

Macroglossum pulchellum Thériot & Hilpert, Beih. Bot. Centralbl. 50(2): 671. pl. 10. 1933.
Other use: *Tisserantiella pulchella* (Thériot & Hilpert) Zander, 1993.

MACROHYMENIUM C. Müller, 1847.

Macrohymenium incrassatum (Dixon & Thériot) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Basionym: *Acroporium incrassatum* Dixon & Thériot, 1942.
Note: not in *Index of Mosses, 1963–1989*.

Macrohymenium megasporum (Duby) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Basionym: *Hypnum megasporum* Duby, 1877.
Note: not in *Index of Mosses, 1963–1989*.

MACROMITRIACEAE Churchill in Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 588. 1995. [See Churchill, S. P. & E. L. Linares C., 1995b.]

MACROMITRIUM Bridel, 1819 [1818].

Macromitrium melinii Roivainen, Ann. Bot. Soc. Zool.-Bot. Fenn. "Vanamo" 6(8): 16. f. 1–6. 1936. [See Roivainen, H., 1936.]
Type: Peru. "Peru borealis, Roque (circiter 40 km ad SO versus e Moyobamba), ad ramum putridum." *Douglas Melin s.n.* 15 Jul 1925. Syntypes: H, UPS.
Note: not in *Index Muscorum*.

Macromitrium norrisianum Vitt in Vitt, T. Koponen & Norris, Acta Bot. Fenn. 154: 53. f. 2c, 24a–k. 1995. [See Vitt, D. H., T. Koponen & D. H. Norris, 1995.]
Type: Papua New Guinea. "Southern Highlands Province, Lama Sawmill, 6 km SE of Ialibu, on *Elaeocarpus* trunk in grassland on gentle slope, 6°22′S, 144°01′E, 1860 m." *Streimann 26580*. Dec 11, 1982. Holotype: H; isotypes: CBG, NY, LAE, ALTA. Paratypes cited.

Macromitrium pullenii Vitt in Vitt, T. Koponen & Norris, Acta Bot. Fenn. 15: 63. f. 2e, 28. 1995. [See Vitt, D. H., T. Koponen & D. H. Norris, 1995.] Type: Papua New Guinea. "Milne Bay District, Nowata about 10 km west of Raboroba, forest on steep plateau, on high branches of forest trees, 340 m, 09°59'S, 149°43'E." *Pullen 7705*. Holotype: L; isotype: COLO.

Macromitrium streimannii Vitt in Vitt, T. Koponen & Norris, Acta Bot. Fenn. 154: 72. f. 3b, 32. 1995. [See Vitt, D. H., T. Koponen & D. H. Norris, 1995.] Type: Papua New Guinea. "Morobe Province, Nauti Logging area, upper Watut River, 11 km SW of Bulolo, *Araucaria* dominated lower montane forest beside small gully on fallen tree branch, 7°17'S, 146°37'E, 1200 m." *Streimann 17269*. Mar 6, 1982. Holotype: ALTA; isotypes: CBG, H, LAE, NICH, NY. Paratypes cited.

MASTOPOMA Cardot, 1901.

Mastopoma brauniana (Bosch & Sande Lacoste) H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 15: 238. 1993. [See Akiyama, H., 1993a.] Basionym: *Hypnum rigidum* var. *braunianum* Bosch & Sande Lacoste, 1865.

MEESIA Hedwig, 1801, conserved name.

Meesia lavardei Thériot, Rev. Bryol. Lichénol. 10: 11. f. 1. 1937, "*Meesea*." Other use: *Barbula lavardei* (Thériot) Zander & Churchill in Churchill & Linares C., 1995.

MEIOTHECIUM Mitten, 1868.

Meiothecium undulatum (Renauld & Cardot) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.] Basionym: *Pterogoniella undulata* Renauld & Cardot, 1909.

MERCEYOPSIS Brotherus & Dixon in Dixon, 1910.

Merceyopsis hymenostylioides Brotherus & Dixon, J. Bot. 48: 302. pl. 508: f. 6. 1910. Other use: *Gymnostomum hymenostylioides* (Brotherus & Dixon) Zander, 1993.

Merceyopsis robusta Dixon, Ann. Bryol. 3: 59. 1930. Other use: *Tuerckheimia robusta* (Dixon) Zander, 1993.

Merceyopsis spathulifolia Dixon & Potier de la Varde, Arch. Bot. Bull. Mens. 1(8–9): 16pl. 4: f. 5. 1927. Other use: *Barbula spathulifolia* (Dixon & Potier de la Varde) Zander, 1993.

METEORIOPSIS Fleischer ex Brotherus, 1906.

Meteoriopsis characea var. ***nigrescens*** (C. Müller) Hosseus, Bol. Fac. Ci. Exact. Fis. Nat. Córdoba 2(3): 15. 1939 [1940]. Basionym: *Neckera characea* var. *nigrescens* C. Müller, 1879. Note: redundant combination in Wijk & Margadant, Taxon 11: 221. 1962.

Meteoriopsis characea var. ***tenuis*** (C. Müller) Hosseus, Bol. Fac. Ci. Exact. Fis. Nat. Córdoba 2(3): 15. 1939 [1940]. Basionym: *Neckera characea* var. *tenuis* C. Müller, 1879. Note: redundant combination in Wijk & Margadant, Taxon 11: 221. 1962.

METEORIUM (Bridel) Dozy & Molkenboer, 1848.

Meteorium aureum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 89. 1859. Replaced name: *Neckera aurea* Griffith, 1843. Blocking name: *Neckera aurea* Schwägrichen, 1827. Other use: *Trachycladiella aurea* (Mitten) Menzel in Menzel & Schultze-Motel, 1994.

Meteorium convolvens Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 90. 1859. Other use: *Pseudotrachypus convolvens* (Mitten) W. R. Buck, 1994.

Meteorium cubense Mitten, J. Linn. Soc., Bot. 12: 435. 1869. Other use: *Dicladiella cubensis* (Mitten) W. R. Buck, 1994.

Meteorium flammeum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 88. 1859.
Other use: *Sinskea flammea* (Mitten) W. R. Buck, 1994.

Meteorium pendulum Sullivant in A. Gray, Manual (ed. 2) 681. 1856.
Other use: *Neodicladiella pendula* (Sullivant in A. Gray) W. R. Buck, 1994.

Meteorium phaeum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 87. 1859.
Other use: *Sinskea phaea* (Mitten) W. R. Buck, 1994.

Meteorium retrorsum var. ***pinfaense*** Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 19: 20. 1909.
Other use: *Chrysocladium retrorsum* var. *pinfaense* (Cardot & Thériot) Redfearn & B. C. Tan, 1995.

Meteorium sparsum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 158. 1859.
Replaced name: *Meteorium hookeri* Mitten, 1859.
Blocking name: *Meteorium hookeri* Mitten, 1859.
Other use: *Trachycladiella sparsa* (Mitten) Menzel in Menzel & Schultze-Motel, 1994.

Meteorium spiculatum Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 90. 1859.
Other use: *Pseudotrachypus spiculatus* (Mitten) W. R. Buck, 1994.

Meteorium stevensii Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 34(2): 72. 1896.
Other use: *Pseudotrachypus stevensii* (Renauld & Cardot) W. R. Buck, 1994.

MICROBRYUM W. P. Schimper, 1860.

Microbryum brevicaule (Taylor) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum brevicaule* Taylor, 1846.

Microbryum curvicolle (Hedwig) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum curvicolle* Hedwig, 1801.

Microbryum davallianum (Smith in Drake) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum davallianum* Smith in Drake, 1805.

Microbryum davallianum var. ***commutatum*** (Limpricht) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia commutata* Limpricht, 1888.

Microbryum davallianum var. ***conicum*** (Schleicher ex Schwägrichen) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum conicum* Schleicher ex Schwägrichen, 1811.

Microbryum floerkeanum var. ***arbense*** (Loitlesberger) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum arbense* Loitlesberger, 1909.

Microbryum longipes (J. Guerra, J. J. Martínez & Ros in J. Guerra et al.) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum longipes* J. Guerra, J. J. Martínez & Ros in J. Guerra et al., 1990.

Microbryum raddei (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula raddei* Brotherus, 1888.

Microbryum rectum (Withering) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum rectum* Withering, 1801.

Microbryum rufochaete (Magill) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Acaulon rufochaete* Magill, 1981 [1982].

Microbryum starkeanum (Hedwig) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993, "*starckeanum*." [See Zander, R. H., 1993b.]
Basionym: *Weissia starkeana* Hedwig, 1801.

Microbryum starkeanum var. ***brachyodus*** (Bruch & W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Anacalypta starkeana* var. *brachyodus* Bruch & W. P. Schimper, 1843.
Microbryum starkeanum var. ***brevidens*** (Latzel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* var. *brevidens* Latzel, 1931.
Microbryum starkeanum fo. ***brevifolium*** (Limpricht) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* fo. *brevifolia* Limpricht, 1888.
Microbryum starkeanum fo. ***dextrorsum*** (Limpricht) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* fo. *dextrorsa* Limpricht, 1888.
Microbryum starkeanum var. ***fosbergii*** (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia fosbergii* E. B. Bartram, 1930.
Microbryum starkeanum var. ***leiostoma*** (Corbière in Corbière & Pitard) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* var. *leiostoma* Corbière in Corbière & Pitard, 1909.
Microbryum starkeanum fo. ***microphyllum*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* fo. *microphyllum* Warnstorf, 1917.
Microbryum starkeanum var. ***subgymnostoma*** (De Notaris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Anacalypta starkeana* var. *subgymnostoma* De Notaris, 1869.
Microbryum starkeanum var. ***submutica*** (Latzel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia starkeana* var. *submutica* Latzel, 1931.
Microbryum subplanomarginatum (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia subplanomarginata* Dixon, 1930 [1929].
Microbryum tasmanicum (Dixon & Rodway) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum tasmanicum* Dixon & Rodway, 1923.
Microbryum vlassovii (Lazarenko) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum vlassovii* Lazarenko, 1938.
Microbryum zealandiae (R. Brown ter) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 240. 1993, "*zeelandiae*." [See Zander, R. H., 1993b.]
Basionym: *Anacalypta zealandiae* R. Brown ter, 1898.
MICROCAMPYLOPUS (C. Müller) Fleischer, 1904.
Microcampylopus leucogaster (C. Müller) B. H. Allen, Monogr. Syst. Bot. Missouri Bot. Gard. 49: 101. 1994. [See Allen, B., 1994a.]
Basionym: *Dicranum leucogaster* C. Müller, 1848.
MICROCROSSIDIUM J. Guerra & Cano in Cano, J. Guerra & Ros, Pl. Syst. Evol. 188: 233. 1993. [See Cano, M. J., J. Guerra & R. M. Ros, 1993.]
Type: *Crossidium apiculatum* Magill, *M. apiculatum* (Magill) J. Guerra & Cano in Cano, J. Guerra & Ros, holotype.
Original placement: Pottiaceae.

Microcrossidium apiculatum (Magill) J. Guerra & Cano in Cano, J. Guerra & Ros, Pl. Syst. Evol. 188: 233. 1993. [See Cano, M. J., J. Guerra & R. M. Ros, 1993.]
Basionym: *Crossidium apiculatum* Magill, 1981 [1982].

MICRODENDRON Brotherus in Handel-Mazzetti, 1929.
Microdendron sinense Brotherus, Symb. Sin. 4: 137. pl. 5: f. 14. 1929.
Other use: *Pogonatum sinense* (Brotherus) Hyvönen & Wu Pan-cheng, 1993.

MICRODUS W. P. Schimper ex Bescherelle, 1872.
**Microdus brotheri* Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Replaced name: *Microdus laxiretis* Brotherus, 1929.
Blocking name: *Microdus laxiretis* (Renauld & Cardot) Paris, 1905.
Correct name: *Microdus yuennanensis* Gao Chien, 1994.
**Microdus laxiretis* Brotherus, Symb. Sin. 4: 16. 1929.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Correct name: *Microdus yuennanensis* Gao Chien, 1994.
Other use: *Microdus brotheri* Redfearn & B. C. Tan, 1995.
Microdus yuennanensis Gao Chien, Fl. Bryophyt. Sin. 1: 131. 1994. [See Gao Chien, 1994.]
Replaced name: *Microdus laxiretis* Brotherus, 1929.
Blocking name: *Microdus laxiretis* (Renauld & Cardot) Paris, 1905.

*MICROMITRIUM W. P. Schimper ex Bescherelle, 1872.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Micromitrium elimbatum Thériot, Recueil Publ. Soc. Havraise Études Diverses 1929: 113. 1930.
Other use: *Groutiella elimbata* (Thériot) O'Shea, 1995.

*MICROTHAMNIUM Mitten, 1869.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Microthamnium evrardii Thériot, Rev. Bryol., n.s. 3: 185. f. 3. 1930.
Other use: *Mittenothamnium evardii* (Thériot) B. C. Tan & Iwatsuki, 1993.
Microthamnium flexile Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 29(1): 185. 1890.
Other use: *Rhacopilopsis flexilis* (Renauld & Cardot) W. R. Buck, 1993.

MIELICHHOFERIA Nees & Hornschuch, 1831.
Mielichhoferia cholnokyi Potier de la Varde, Rev. Bryol. Lichénol. 24: 31. f. 2. 1955. [See Potier de la Varde, R., 1955.]
Type: South Africa. "Drakensberge: Schattige felsige Böschung (Sandstein) nahe des Weges nach Fanny Glan." *Cholnoky 18*. 9 Jul 1954.
Note: not in *Index Muscorum*.

MIRONIA Zander, Bull. Buffalo Soc. Nat. Sci. 32: 112. 1993.
Replaced name: *Morinia* Cardot, 1910.
Blocking name: *Morinia* Berlese & Bresadola, 1889.
Mironia crassicuspis (H. Robinson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 112. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula crassicuspis* H. Robinson, 1964.
Mironia ehrenbergiana (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 112. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula ehrenbergiana* C. Müller, 1849.
Mironia ehrenbergiana var. *elongata* (Wilson in Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 112. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula elongata* Wilson in Mitten, 1851.
Mironia stenotheca (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 112. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula stenotheca* Thériot, 1931.

MITTENOTHAMNIUM Hennings, 1902, conserved name.
Mittenothamnium evardii (Thériot) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 367. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Microthamnium evrardii* Thériot, 1930.
Mittenothamnium patens var. ***kilimandscharium*** (Brotherus) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984.
Basionym: *Stereohypnum patens* var. *kilimandscharicum* Brotherus, 1912.
Note: not in *Index of Mosses, 1963–1989.*
Mittenothamnium subpatens (Brotherus in Mildbraed) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]
Basionym: *Stereohypnum subpatens* Brotherus in Mildbraed, 1910.
Note: not in *Index of Mosses, 1963–1989.*
MITTHYRIDIUM H. Robinson, 1975.
Mitthyridium subgen. ***Brachycladum*** W. D. Reese, J. Hattori Bot. Lab. 75: 43. 1994. [See Reese, W. D., 1994a.]
Type: *Syrrhopodon repens* Harvey in Hooker, holotype.
Mitthyridium subgen. ***Eurphyllum*** W. D. Reese, J. Hattori Bot. Lab. 75: 43. 1994. [See Reese, W. D., 1994a.]
Type: *Syrrhopodon flavus* C. Müller, holotype.
Mitthyridium subgen. ***Infundibulum*** W. D. Reese, J. Hattori Bot. Lab. 75: 43. 1994. [See Reese, W. D., 1994a.]
Type: *Calymperes contrictum* Sullivant, holotype.
Mitthyridium micro-undulatum subsp. ***comoroense*** W. D. Reese, Magill & Pócs, Bryologist 97: 430. f. 1–2. 1994, "*comoroensis*." [See Reese, W. D., R. E. Magill & T. Pócs, 1994.]
Type: Comoros. "Mayotte. Cloud/rain forest on upper slopes and summit of Mt. Bénara. On tree, 12°53'S, 45°09'E, 600–660 m." *R. E. Magill & T. Pócs 11651.* Holotype: MO; isotypes: PC, Musée National des Comores, Morini.
MIYABEA Brotherus, 1905.
Miyabea nishimurae R. Watanabe in Nakaike & S. Malik, Cryptog. Fl. Pakistan 2: 259. f. 1. 1993. [See Nishimura, N., R. Watanabe, H. Kanda, N. Takaki, U. Mizushima, Z. Iwatsuki, T. Seki, M. Higuchi & H. Ando, 1993.]
Type: Pakistan. "Azad Kashmir: Punch, Mt. Toli Pir (east of Rawalko), 2,150 m." *Nishimura 9439.* Sep 9, 1991. Holotype: HIRU; isotype: TNS.
MNIUM Hedwig, 1801, conserved name.
Mnium incertum Dixon ex Foreau, J. Bombay Nat. Hist. Soc. 58: 27. 1961.
Note: not in *Index Muscorum.*
Mnium subelimbatum Dixon, J. Bot. 80: 820. 1942.
Other use: *Plagiomnium integrum* var. *subelimbatum* (Dixon) T. Koponen & Norris, 1983.
MOENKEMEYERA C. Müller, 1886.
Moenkemeyera wainioi C. Müller in Brotherus, Acta Soc. Sci. Fenn. 19(5): 11. 1891, "*wainionis*."
Other use: *Fissidens diplodus* var. *wainioi* (C. Müller in Brotherus) Pursell in A. J. Sharp, H. Crum & Eckel, 1994.
MOLENDOA Lindberg, 1878.
Molendoa ogalalensis (G. L. S. Merrill) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 170. 1993. [See Zander, R. H., 1993b.]
Basionym: *Ozobryum ogalalense* G. L. S. Merrill, 1992.
Molendoa platyphyllum (R. S. Williams) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 170. 1993. [See Zander, R. H., 1993b.]
Basionym: *Anoectangium platyphyllum* R. S. Williams, 1927.
Molendoa schliephackei (Limpricht) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 170. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pleuroweisia schliephackei* Limpricht, 1884.
Molendoa warburgii (Crundwell & M. O. Hill) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 170. 1993. [See Zander, R. H., 1993b.]
Basionym: *Anoectangium warburgii* Crundwell & M. O. Hill, 1977.

*MORINIA Cardot, Rev. Bryol. Lichénol. 37: 124. 1910.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

NECKERA Hedwig, 1801, conserved name.
Neckera sect. ***Pseudopilotrichum*** C. Müller, Syn. Musc. Frond. 2: 123. 1850.
Other use: *Pseudopilotrichum* (C. Müller) W. R. Buck & B. H. Allen in W. R. Buck, 1994.
Neckera characea var. ***nigrescens*** C. Müller, Linnaea 42: 419. 1879.
Other use: *Meteoriopsis characea* var. *nigrescens* (C. Müller) Hosseus, 1939 [1940].
Neckera neckeroides (Brotherus) Enroth & B. C. Tan, Ann. Bot. Fenn. 31: 53. 1994. [See Enroth, J. & B. C. Tan, 1994.]
Basionym: *Homaliodendron neckeroides* Brotherus, 1929.
Neckera pandurifolia C. Müller, Bot. Zeitung (Berlin) 13: 767. 1855, "*panduraefolia*."
Other use: *Orthostichella pandurifolia* (C. Müller) W. R. Buck, 1994, *Pseudopilotrichum pandurifolium* (C. Müller) W. R. Buck & B. H. Allen in W. R. Buck, 1994.
Neckera schnyderi C. Müller, Linnaea 43: 472. 1882.
Other use: *Neckeropsis schnyderi* (C. Müller) Hosseus, 1939 [1940].
Neckera semitorta C. Müller, Syn. Musc. Frond. 2: 671. 1851.
Other use: *Loxotis semitorta* (C. Müller) W. R. Buck, 1994, *Toloxis semitorta* (C. Müller) W. R. Buck, 1994.
Neckera uruguensis C. Müller, Linnaea 42: 412. 1879.
Other use: *Neckeropsis uruguensis* (C. Müller) Hosseus, 1939 [1940].
Neckera vulpina Montagne, Ann. Sci. Nat. Bot., sér. 2, 3: 204. pl. 4: f. 1. 1835.
Other use: *Colobodontium vulpinum* (Montagne) Churchill & W. R. Buck in Churchill & Linares C., 1995.

NECKEROPSIS Reichardt, 1870.
Neckeropsis schnyderi (C. Müller) Hosseus, Bol. Fac. Ci. Exact. Fis. Nat. Córdoba 2(3): 18. 1939 [1940]. [See Hosseus, C. C., 1939.]
Basionym: *Neckera schnyderi* C. Müller, 1882.
Note: not in *Index Muscorum*.
Neckeropsis uruguensis (C. Müller) Hosseus, Bol. Fac. Ci. Exact. Fis. Nat. Córdoba 2(3): 18. 1939 [1940]. [See Hosseus, C. C., 1939.]
Basionym: *Neckera uruguensis* C. Müller, 1879.
Note: not in *Index Muscorum*.

NEODICLADIELLA (Noguchi) W. R. Buck, J. Hattori Bot. Lab. 75: 61. 1994. [See Buck, W. R., 1994a.]
Basionym: *Barbella* sect. *Neodicladiella* Noguchi, 1948.
Neodicladiella pendula (Sullivant in A. Gray) W. R. Buck, J. Hattori Bot. Lab. 75: 62. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium pendulum* Sullivant in A. Gray, 1856.

NOTOLIGOTRICHUM G. L. Smith, 1971.
Notoligotrichum tapes var. ***apiculatum*** (Cardot) Schiavone, Fl. Criptog. Tierra del Fuego 14(12): 38. 1993. [See Schiavone, M. M., 1993.]
Basionym: *Psilopilum tapes* var. *apiculatum* Cardot, 1908.

OCHROBRYUM Mitten, 1869.
Ochrobryum polakowskyi C. Müller ex Bescherelle, J. Bot. (Desvaux) 11: 151. 1897.
Other use: *Leucobryum antillarum* var. *polakowskyi* (C. Müller ex Bescherelle) Peterson in A. J. Sharp, H. Crum & Eckel, 1994.

OCTOBLEPHARUM Hedwig, 1801.
Octoblepharum leucobryoides Yano, Revista Brasil. Bot. 16: 69. f. 1. 1993. [See Yano, O., 1993.]
Type: Brazil. "Amazonas, Manaus, rod. Manaus-Caracarí, km 130, depressão úmida, rocha granítica com muito sol." *D. Griffin III, D. M. Vital & O. Yano 401*. Jul 25, 1974. Holotype: SP; isotypes: INPA, FLAS. Other indicated distribution: Brazil (Roraima).

ONCOPHORUS (Bridel) Bridel, 1826.
Oncophorus gracilentus Zeng Shu-ying, Acta Bot. Yunnan. 15: 369. f. 1–15. 1993. [See Zeng Shu-ying, 1993.]
Type: China. "Yunnan: Gengma Xian (Kengma County), grows on soil." *Zeng Shu-ying 80-1703.* Apr 7, 1980. Holotype: KUN.

ORTHODONTIUM Schwägrichen, 1827.
Orthodontium ruwenzorensis (Thériot & Naveau) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Stableria ruwenzorense* Thériot & Naveau, 1927.

ORTHOSTICHELLA C. Müller, 1897.
Orthostichella hexasticha (Schwägrichen) W. R. Buck, Bryologist 97: 435. 1994. [See Buck, W. R., 1994b.]
Basionym: *Hypnum hexastichum* Schwägrichen, 1816.
Orthostichella pandurifolia (C. Müller) W. R. Buck, Bryologist 97: 435. 1994. [See Buck, W. R., 1994b.]
Basionym: *Neckera pandurifolia* C. Müller, 1855.
Orthostichella pentasticha (Bridel) W. R. Buck, Bryologist 97: 435. 1994. [See Buck, W. R., 1994b.]
Basionym: *Hypnum pentastichum* Bridel, 1801.
Orthostichella turgidellacea (C. Müller ex Dusén) W. R. Buck, Bryologist 97: 435. 1994. [See Buck, W. R., 1994b.]
Basionym: *Pilotrichella turgidellacea* C. Müller ex Dusén, 1895.

ORTHOTRICHUM Hedwig, 1801.
Orthotrichum alpestre var. ***berggrenii*** (E. B. Bartram) Lewinsky, Bryobrothera 2: 63. 1993. [See Lewinsky, J., 1993a.]
Basionym: *Orthotrichum berggrenii* E. B. Bartram, 1939.
Orthotrichum berggrenii E. B. Bartram, Occas. Pap. Bernice Pauahi Bishop Mus. 15: 103. f. 7. 1939.
Other use: *Orthotrichum alpestre* var. *berggrenii* (E. B. Bartram) Lewinsky, 1993.
Orthotrichum ibericum F. Lara & Mazimpaka, Nova Hedwigia 56: 263. f. 1–3. 1993. [See Lara, F. & V. Mazimpaka, 1993.]
Type: Spain. Avila: "Serranillos, 1250 m, 30TUK36." *F. Lara & P. Ramírez s.n.* Nov 1, 1991. Holotype: MA; isotypes: ALTA, BCB, herb. Lara, herb. Mazimpaka. Other indicated distribution: Portugal.
Orthotrichum incrassatum Lewinsky, Bryobrothera 2: 67. f. 4–5. 1993. [See Lewinsky, J., 1993a.]
Type: U.S.A. "Hawaii, Mauna Kea Forest Reserve, alt. 2,928–4,026 m." *Vitt 14996.* 1975. Holotype: ALTA.
Orthotrichum macrocephalum F. Lara, Garilleti & Mazimpaka, Bryologist 97: 402. f. 1–20. 1994. [See Lara, F., R. Garilleti & V. Mazimpaka, 1994.]
Type: Spain. "Guadalajara. Oak wood near Torija, 30TVL9407, 900 m altitude, epiphytic on *Quercus faginea* Lam." *Albertos, Garilleti & Lara s.n.* Jan 8, 1993. Holotype: MA; isotype: BCB. Paratypes cited.
Orthotrichum spanotrichum Lewinsky, Lindbergia 18: 116. f. 1–2. 1993 [1994]. [See Lewinsky, J., 1993 [1994]b.]
Type: Venezuela. "Estado Mérida, Sierra Nevada near Santo Domingo, in moist secondary shrubbery above the Hotels Los Frailes; epiphytic, ca. 3200 m." *Schäfer-Verwimp 12214.* Jan 16, 1990. Holotype: KUO; isotype: herb. Schäfer-Verwimp.
Orthotrichum spjutii Norris & Vitt, Nova Hedwigia 56: 260. f. 1. 1993. [See Norris, D. H. & D. H. Vitt, 1993.]
Type: U.S.A. California: "Tuolumne Co., outlet of valley of Koenig Lake, east slope of the Sierra Nevada, east of Sonora Pass along Hwy 108, Toiyabe National Forest," 2600 m, *Janatova & Norris 76536.* Holotype: ALTA; isotypes: MO, NY. Paratype cited.
Orthotrichum tenuicaule Lewinsky, J. Hattori Bot. Lab. 75: 45. f. 1. 1994. [See Lewinsky, J., 1994.]
Type: Venezuela. "Estado Mérida, Santo Doming, epiphytic in moist secondary shrubbery near the Hotel Los Frailes,

3,000 m." *Schäfer-Verwimp & Verwimp 12232*. Jan 16–17, 1990. Holotype: KUO; isotype: herb. Schäfer-Verwimp. Paratypes cited.

OZOBRYUM G. L. S. Merrill, 1992.

Ozobryum ogalalense G. L. S. Merrill, Novon 2: 255. f. 1–2. 1992.

Other use: *Molendoa ogalalensis* (G. L. S. Merrill) Zander, 1993.

PAPILLARIA (C. Müller) C. Müller in Ångström, 1876, conserved name.

Papillaria borchgrevinkii Kiaer ex C. Müller, Flora 73: 494. 1890.

Other use: *Loxotis borchgrevinkii* (Kiaer ex C. Müller) W. R. Buck, 1994, *Toloxis borchgrevinkii* (Kiaer ex C. Müller) W. R. Buck, 1994.

Papillaria martinicensis Brotherus in Urban, Symb. Antill. 3: 429. 1903.

Other use: *Aerobryopsis martinicensis* (Brotherus in Urban) Spessard-Schueth in A. J. Sharp, H. Crum & Eckel, 1994, *Pseudotrachypus martinicensis* (Brotherus in Urban) W. R. Buck, 1994.

PAPILLIDIOPSIS (Brotherus in Engler & Prantl) W. R. Buck & B. C. Tan, 1989 [1990].

Papillidiopsis malayana (Dixon) B. C. Tan, Willdenowia 24: 292. 1994. [See Tan, B. C., 1994a.]

Basionym: *Acroporium malayanum* Dixon, 1924.

PHASCONICA C. Müller, Linnaea 43: 438. 1882.

Phasconica balansae C. Müller, Linnaea 43: 438. 1882.

Other use: *Weissia balansae* (C. Müller) Zander, 1993.

Phasconica lorentzii C. Müller, Linnaea 43: 438. 1882.

Other use: *Weissia lorentzii* (C. Müller) Zander, 1993.

Phasconica tisserantii Potier de la Varde, Rev. Bryol. Lichénol. 7: 231. f. 3. 1935.

Other use: *Trichostomum tisserantii* (Potier de la Varde) Zander, 1993.

PHASCUM Hedwig, 1801.

Phascum sect. ***Schizophascum*** C. Müller, Flora 71: 6. 1888.

Other use: *Tortula* sect. *Schizophascum* (C. Müller) Zander, 1993.

Phascum acaulon Withering, Syst. Arr. Brit. Pl. (ed. 4) 3: 768. 1801, "*acuale*."

Other use: *Tortula acaulon* (Withering) Zander, 1993.

Phascum acaulon var. ***diaphorum*** I. Hagen, Kongel. Norske Vidensk. Selsk. Skr. (Trondheim) 1928(3): 19. 1929.

Other use: *Tortula acaulon* var. *diaphora* (I. Hagen) Zander, 1993.

Phascum affine Nees & Hornschuch, Bryol. Germ. 1: 74. pl. 7: f. 19. 1823.

Other use: *Tortula acaulon* var. *affinis* (Nees & Hornschuch) Zander, 1993.

Phascum arbense Loitlesberger, Verh. Zool.-Bot. Ges. Wien 59: 55. 1909.

Other use: *Microbryum floerkeanum* var. *arbense* (Loitlesberger) Zander, 1993.

Phascum austrocrispum Beckett, Trans. & Proc. New Zealand Inst. 26: 274. pl. 25. 1893 [1894].

Other use: *Trichostomum austrocrispum* (Beckett) Zander, 1993.

Phascum bryoides Dickson, Fasc. Pl. Crypt. Brit. 4: 3. pl. 10: 3. 1801.

Other use: *Tortula protobryoides* Zander, 1993.

Phascum bryoides var. ***brevifolium*** De Notaris, Atti Reale Univ. Genova 1: 734. 1869.

Other use: *Tortula protobryoides* var. *brevifolia* (De Notaris) Zander, 1993.

Phascum bryoides var. ***thornhillii*** Wilson, Bryol. Brit. 33. 1855.

Other use: *Tortula protobryoides* var. *thornhillii* (Wilson) Zander, 1993.

Phascum carinatum Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 76. 1879.

Other use: *Bruchia carinata* (Hampe) Zander, 1993.

Phascum curvicolle Hedwig, Sp. Musc. Frond. 21. 1801.

Other use: *Microbryum curvicolle* (Hedwig) Zander, 1993.

Phascum curvisetum Dickson, Fasc. Pl. Crypt. Brit. 4: 2. pl. 10: 4. 1801.

Other use: *Tortula acaulon* var. *curviseta* (Dickson) Zander, 1993.

Phascum cuspidatum Hedwig, Sp. Musc. Frond. 22. 1801.
Other use: *Tortula atherodes* Zander, 1993.

Phascum cuspidatum var. ***arcuatum*** Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991.
Other use: *Tortula acaulon* var. *arcuata* (Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby) Zander, 1993.

Phascum cuspidatum var. ***marginatum*** Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, Bryologist 94: 175. 1991.
Other use: *Tortula acaulon* var. *marginata* (Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby) Zander, 1993.

Phascum cuspidatum var. ***mitriforme*** Limpricht, Laubm. Deutschl. 1: 187. 1885.
Other use: *Tortula acaulon* var. *mitriformis* (Limpricht) Zander, 1993.

Phascum cuspidatum subsp. ***papillosum*** (Lindberg) J. Guerra & Ros in J. Guerra et al., Cryptog. Bryol. Lichénol. 12: 391. 1991. [See Guerra, J., M. N. Jiménez, R. M. Ros & J. S. Carrión, 1991.]
Basionym: *Phascum papillosum* Lindberg, 1864.
Note: not in *Index of Mosses, 1990–1992*.

Phascum cuspidatum var. ***retortifolium*** J. Guerra & Ros in J. Guerra et al., Cryptog. Bryol. Lichénol. 12: 390. f. 27–29. 1991. [See Guerra, J., M. N. Jiménez, R. M. Ros & J. S. Carrión, 1991.]
Type: Spain. "Almería, Cabo de Gata, Cortijo el Sabinar, 250 m, WF7269." *Ros & García-Zamora s.n.* Feb 10 1990. Holotype: MUB. Paratypes cited.
Other use: *Tortula acaulon* var. *retortifolia* (J. Guerra & Ros in J. Guerra et al.) Zander, 1993.
Note: not in *Index of Mosses, 1990–1992*.

Phascum drummondii Wilson, London J. Bot. 7: 26. pl. 1: A. 1848.
Other use: *Tortula willisiana* Zander, 1993.

Phascum elatum Bridel, J. Bot. (Schrader) 1800(1): 269. 1801.
Other use: *Tortula acaulon* var. *elata* (Bridel) Zander, 1993.

Phascum fruchartii C. Müller, Flora 71: 4. 1888, "*fruchartii*."
Other use: *Tortella fruchartii* (C. Müller) Zander, 1993.

Phascum hyalinotrichum Cardot & Thériot, Bot. Gaz. 37: 363. pl. 16: f. 1. 1904.
Other use: *Stegonia hyalinotrichum* (Cardot & Thériot) Zander, 1993.

Phascum intertextum Bridel, Muscol. Recent. Suppl. 4: 8. 1819 [1818].
Other use: *Tortula acaulon* var. *intertexta* (Bridel) Zander, 1993.

Phascum leptophyllum C. Müller, Flora 71: 6. 1888.
Other use: *Chenia leptophylla* (C. Müller) Zander, 1993.

Phascum lilliputanum C. Müller ex G. Roth, Aussereur. Laubm. 212. pl. 20: 3. 1911.
Other use: *Tortella lilliputana* (C. Müller ex G. Roth) Zander, 1993.

Phascum longifolium R. Brown ter, Trans. & Proc. New Zealand Inst. 26: 303. pl. 38: *Phascum* (*Pleuridium*) *longifolium*. 1894.
Other use: *Trichostomum austrocrispum* var. *longifolium* (R. Brown ter) Zander, 1993.

Phascum longipes J. Guerra, J. J. Martínez & Ros in J. Guerra et al., J. Bryol. 16: 55. f. 1–2. 1990.
Other use: *Microbryum longipes* (J. Guerra, J. J. Martínez & Ros in J. Guerra et al.) Zander, 1993.

Phascum papillosum Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 21: 217. 1864.
Other use: *Phascum cuspidatum* subsp. *papillosum* (Lindberg) J. Guerra & Ros in J. Guerra et al., 1991, *Tortula acaulon* var. *papillosa* (Lindberg) Zander, 1993.

Phascum piliferum Hedwig, Sp. Musc. Frond. 20. 1801.
Other use: *Tortula acaulon* var. *pilifera* (Hedwig) Zander, 1993.

Phascum rectum Withering, Syst. Arr. Brit. Pl. (ed. 4) 4: 771. 1801.
Other use: *Microbryum rectum* (Withering) Zander, 1993.

Phascum recurvirostre C. Müller, Flora 71: 5. 1888.
Other use: *Weissia diffidentia* Zander, 1993.

Phascum schreberianum Dickson, Fasc. Pl. Crypt. Brit. 4: 2. 1801.
Other use: *Tortula acaulon* var. *schreberiana* (Dickson) Zander, 1993.

Phascum splachnoides Hornschuch, Horae Phys. Berol. 57. 1820.
Other use: *Tortula splachnoides* (Hornschuch) Zander, 1993.

Phascum tasmanicum Dixon & Rodway, Pap. & Proc. Roy. Soc. Tasmania 1923: 25. illustration. 1923.
Other use: *Microbryum tasmanicum* (Dixon & Rodway) Zander, 1993.

Phascum vernicosum C. Müller ex G. Roth, Aussereur. Laubm. 212. 1911.
Other use: *Trichostomum exulatum* Zander, 1993.

Phascum vlassovii Lazarenko, Žurn. Inst. Bot. Vseukrajins'k. Akad. Nauk 26–27: 196. 1938.
Other use: *Microbryum vlassovii* (Lazarenko) Zander, 1993.

PHYLLODON Bruch & W. P. Schimper in B.S.G., 1851.

Phyllodon ligulaefolius (E. B. Bartram) Menzel, J. Hattori Bot. Lab. 71: 239. 1992. [See Menzel, M., 1992.]
Basionym: *Glossadelphus ligulaefolius* E. B. Bartram, 1946.
Note: not in *Index of Mosses, 1990–1992*.

PHYSCOMITRIUM (Bridel) Bridel, 1827 [1826].

Physcomitrium mirabile (Brotherus & Paris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 278. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia mirabilis* Brotherus & Paris, 1904.

PILOTRICHELLA (C. Müller) Bescherelle, 1872.

Pilotrichella turgidellacea C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(2): 31. illustration. 1895.
Other use: *Orthostichella turgidellacea* (C. Müller ex Dusén) W. R. Buck, 1994, *Pseudopilotrichum turgidellaceum* (C. Müller ex Dusén) W. R. Buck & B. H. Allen in W. R. Buck, 1994.

PINNATELLA Fleischer, 1906.

Pinnatella sect. ***Urocladium*** Fleischer, Hedwigia 45: 82. 1906.
Other use: *Pinnatella* subgen. *Urocladium* (Fleischer) Enroth, 1994.

Pinnatella subgen. ***Urocladium*** (Fleischer) Enroth, Acta Bot. Fenn. 151: 15. 1994. [See Enroth, J., 1994b.]
Basionym: *Pinnatella* sect. *Urocladium* Fleischer, 1906.

Pinnatella amblyphylla Enroth, Acta Bot. Fenn. 151: 37. f. 2c, 14a–l, 28. 1994. [See Enroth, J., 1994b.]
Type: Thailand. "Payap, limestone massive Doi (Mt.) Chiengdao, 98°55'E, 19°25'N, 1,500–1,650 m, on tree trunks and branches in hill evergreen forest." *Touw 9168*. Dec 6, 1965. Holotype: L. Paratypes cited.

Pinnatella donghamensis (Bescherelle) Ninh, Bryologist 96: 578. 1993. [See Ninh, T., 1993.]
Basionym: *Porotrichum alopecuroides* var. *donghamense* Bescherelle, 1887.

PLAGIOMNIUM T. Koponen, 1968.

Plagiomnium integrum var. ***subelimbatum*** (Dixon) T. Koponen & Norris, Ann. Bot. Fenn. 20: 36. 1983. [See Koponen, T. & D. H. Norris, 1983.]
Basionym: *Mnium subelimbatum* Dixon, 1942.
Note: not in *Index of Mosses, 1963–1989*.

PLAGIOTHECIUM Bruch & W. P. Schimper in B.S.G., 1852.

Plagiothecium corticola Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 30(5): 143. 1873.
Other use: *Sematophyllum corticolum* (Ångström) O'Shea, 1995.

†**PLATYBRYOPSIS** Plamada & Givulescu, Acta Palaeobot. 32: 23. 1992.
Type: *Platybryopsis distichus* Plamada & Givulescu, holotype.
Note: not in *Index of Mosses, 1990–1992.*

†***Platybryopsis disticha*** Plamada & Givulescu, Acta Palaeobot. 32: 22. f. 2. 1992. [See Plamada, E. & R. Givulescu, 1992.]
Type: Romania. "Borozel/Bihor, Pannonian unhorizonted." *N. Ticleanu.* 1981. "Departement [*sic*] of Geology and Paleontology [*sic*], University of Cluj-Napoca, nr. 699/1991."
Note: not in *Index of Mosses, 1990–1992.*

PLATYDICTYA Berkeley, 1863.

Platydictya sinensi-subtilis (C. Müller) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Amblystegium sinensi-subtile* C. Müller, 1896.

Platydictya spuriosubtilis (Brotherus & Paris) Schofield, J. Hattori Bot. Lab. 28: 37. 1965. [See Schofield, W. B., 1965.]
Basionym: *Amblystegium spuriosubtile* Brotherus & Paris, 1904.
Note: not in *Index of Mosses, 1963–1989.*

Platydictya yuennanensis (Brotherus) Redfearn & B. C. Tan, Trop. Bryol. 10: 66. 1995. [See Redfearn, P. L., Jr. Tan, 1995.]
Basionym: *Amblystegiella yuennanensis* Brotherus, 1929.

PLAUBELIA Bridel, 1826, rejected against *Trichostomum* Bruch.

Plaubelia involuta (Magill) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 176. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weisiopsis involuta* Magill, 1981 [1982].

****Plaubelia perinvoluta*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 176. 1993 [Dec]. [See Zander, R. H., 1993b.]
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Earlier name: *Desmatodon burmensis* B. C. Tan & Iwatsuki, 1993 [24 Nov].
Replaced name: *Desmatodon involutus* E. B. Bartram, 1943.
Blocking name: *Plaubelia involuta* (Magill) Zander, 1993.

Plaubelia sprengelii (Schwägrichen) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 176. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula sprengelii* Schwägrichen, 1823.

Plaubelia sprengelii var. ***stomatodonta*** (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 176. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila stomatodonta* Cardot, 1909.

PLEURIDIUM Rabenhorst, 1848, conserved name.

Pleuridium globiferum Bridel, Muscol. Recent. Suppl. 4: 10. 1819 [1818].
Other use: *Archidium globiferum* (Bridel) Frahm, 1994.

Pleuridium japonicum Deguchi, Matsui & Iwatsuki, J. Hattori Bot. Lab. 75: 23. f. 1, 2: d, 3, 4: g, 5, 6: d. 1994. [See Deguchi, H., T. Matsui & Z. Iwatsuki, 1994.]
Type: Japan. "Shikoku, Kochi-ken, Nagaoka-gun, Ohtoyo-cho, Mt. Kajigamori, ca. 1,250 m alt." *H. Deguchi 32888.* Apr 25, 1992. Holotype: HIRO; isotypes: H, KOCH, NY. Paratypes cited.

PLEUROCHAETE Lindberg, 1864, rejected against *Tortella.*

Pleurochaete squarrosa var. ***luteola*** (Bescherelle) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 98. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum luteolum* Bescherelle, 1872.

PLEURORTHOTRICHUM Brotherus, 1905.

Pleurorthotrichum cryptocarpum E. B. Bartram, Ann. Bryol. 11: 25. 1938.
Other use: *Ceuthotheca cryptocarpa* (E. B. Bartram) Lewinsky, 1994.

PLEUROWEISIA Limpricht ex Schliephacke, 1885.

Pleuroweisia schliephackei Limpricht, Jahresber. Schles. Ges. Vaterl. Cult. 61: 224. 1884.

Other use: *Molendoa schliephackei* (Limpricht) Zander, 1993.

POGONATUM Palisot de Beauvois, 1804.

Pogonatum sinense (Brotherus) Hyvönen & Wu Pan-cheng, Bryologist 96: 633. 1993. [See Hyvönen, J. & Pan-Cheng Wu, 1993.]

Basionym: *Microdendron sinense* Brotherus, 1929.

POHLIA Hedwig, 1801.

Pohlia cavaleriei (Cardot & Thériot) Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995, "*cavalieri*." [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera cavaleriei* Cardot & Thériot, 1911.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

Pohlia ciliifera (Brotherus) Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera ciliifera* Brotherus, 1924.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

Pohlia graciliformis (Cardot & Thériot) Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995, "*Pohlia*" . . . cited as basionym. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera graciliformis* Cardot & Thériot, 1911.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256, basionym not cited; valid, error of bibliographic citation of basionym (Article 33.3, *Tokyo Code*).

Pohlia gromieri (Thériot) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]

Basionym: *Webera gromieri* Thériot, 1924.

Note: not in *Index of Mosses, 1963–1989*.

Pohlia kenyae (Dixon) Kis, Proc. Third Meeting Bryol. C. & E. Europe 220. 1984. [See Kis, G., 1984.]

Basionym: *Webera kenyae* Dixon, 1938.

Note: not in *Index of Mosses, 1963–1989*.

Pohlia lacouturei (Thériot) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]

Basionym: *Webera lacouturei* Thériot, 1922.

Pohlia laticuspis (Brotherus) Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995, "*laticuspes*." [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera laticuspis* Brotherus, 1929.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

****Pohlia magnifica*** Wijk & Margadant ex Matteri, 1985.

*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Pohlia propagulifera (Brotherus ex Levier) Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera propagulifera* Brotherus ex Levier, 1906.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

Pohlia pygmaea (Brotherus) Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera pygmaea* Brotherus, 1929.

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

Pohlia tapintzense (Bescherelle) Redfearn & B. C. Tan, Trop. Bryol. 10: 67. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Basionym: *Webera tapintzensis* Bescherelle, 1891.

Pohlia timmioides Chen Pan-chieh ex Redfearn & B. C. Tan, Trop. Bryol. 10: 68. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]

Note: invalid in Chen, Gen. Musc. Sin. 1: 256. 1963, basionym not cited.

POLYTRICHASTRUM G. L. Smith, 1971.

Polytrichastrum altaicum Ignatov & G. L. S. Merrill, Arctoa 5: 76. f. 29. 1995. [See Ignatov, M. S. & G. L. S. Merrill, 1995.]
Type: Russia. "Altai, Dvukhkarovaya Creek." *Ignatov 36/361*. Jul 25, 1993. Holotype: MHA; isotype: F.

Polytrichastrum longisetum var. ***anomalum*** (Milde) Ignatov & G. L. S. Merrill, Arctoa 5: 71. 1995. [See Ignatov, M. S. & G. L. S. Merrill, 1995.]
Basionym: *Atrichum anomalum* Milde, 1869.

POROTHAMNIUM Fleischer, 1908.

Porothamnium ceylonense Fleischer, Musci Buitenzorg 3: 928. 1908.
Other use: *Thamnobryum ceylonense* (Fleischer) Enroth, 1994.

Porothamnium viguieri var. ***laxirete*** Demaret & J. Leroy, Explor. Parc Natl. Albert, Mission Lebrun 6: 42. f. 46. 1944.
Type: Zaïre. "Sous-district des Volcans. Groupe central: cersant sud du Mikeno, alt. 2800 m, limite inférieure de l'étage des *Hagenia*, épiphyte." *J. Lebrun 7484*.
Note: not in *Index Muscorum*.

POROTRICHUM (Bridel) Hampe, 1863.

Porotrichum alopecuroides var. ***donghamense*** Bescherelle, Bull. Soc. Bot. France 34: 97. 1887.
Other use: *Pinnatella donghamensis* (Bescherelle) Ninh, 1993.

Porotrichum tenuinerve B. H. Allen, Novon 4: 315. f. 1–10. 1994. [See Allen, B., 1994b.]
Type: Honduras. "Lempira: Montaña de Celaque, trail from Camp Don Tomás to first ridge, 14°34'N, 88°39'W." *Allen 11338*. Holotype: MO; isotypes: NY, TEFH. Paratype cited.

POTTIA (Reichenbach) Fürnrohr, 1829.
Note: proposed for conservation; see Taxon 44: 620. 1995.

Pottia acutidentata Cardot & Thériot, Bull. Mus. Hist. Nat. (Paris) 22: 338. 1916.
Other use: *Hennediella acutidentata* (Cardot & Thériot) Zander, 1993.

Pottia* × *andalusica Ros & Oliva in Ros, J. Guerra & Cano, Cryptog. Bryol. Lichénol. 15: 201. f. 1. 1994. [See Ros, R. M., J. Guerra & M. J. Cano, 1994.]
Type: Spain. "Córdoba, Sierra Morena, carretera a Trasierra km 3, prado soleado." *Oliva s.n.* Jan 30, 1980. Holotype: herb. Oliva; isotype: MUB. Paratypes cited.

Pottia asperula Mitten, J. Bot. 9: 4. 1871.
Other use: *Tortula wilsonii* var. *asperula* (Mitten) Zander, 1993.

Pottia commutata Limpricht, Laubm. Deutschl. 1: 537. f. 160. 1888.
Other use: *Microbryum davallianum* var. *commutatum* (Limpricht) Zander, 1993.

Pottia crinita Wilson ex Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 2: 43. pl. 123 (fasc. 42 Monogr. Suppl. 1: 1. pl. 1). 1843.
Other use: *Tortula wilsonii* var. *crinita* (Wilson ex Bruch & W. P. Schimper in B.S.G.) Zander, 1993.

Pottia cuneifolia Solms ex W. P. Schimper, Syn. Musc. Eur. (ed. 2) 154. 1876.
Other use: *Tortula zoddae* Zander, 1993.

Pottia drummondii var. ***obscura*** J. H. Willis, Victoria Naturalist 70: 171. 1954.
Other use: *Tortula willisiana* var. *obscura* (J. H. Willis) Zander, 1993.

Pottia fosbergii E. B. Bartram, Bryologist 33: 18. illustration. 1930.
Other use: *Microbryum starkeanum* var. *fosbergii* (E. B. Bartram) Zander, 1993, *Pottia starkeana* var. *fosbergii* (E. B. Bartram) Zander, 1993.

Pottia guessfeldtii Schliephacke, Ber. Deutsch. Bot. Ges. 2: 461. 1884.
Other use: *Hennediella heimii* var. *guessfeldtii* (Schliephacke) Zander, 1993.

Pottia heimii var. ***alpina*** Amann, Bull. Soc. Vaud. Sci. Nat. 54: 42. 1921.
Other use: *Hennediella heimii* var. *alpina* (Amann) Zander, 1993.

Pottia heimii var. ***arctica*** Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 23: 551. 1866 [1867].
Other use: *Hennediella heimii* var. *arctica* (Lindberg) Zander, 1993.

Pottia heimii var. ***brachyphylla*** Warnstorf, Hedwigia 58: 100. f. 21. 1916.
Other use: *Hennediella heimii* var. *brachyphylla* (Warnstorf) Zander, 1993.

Pottia heimii var. ***brevicuspis*** Warnstorf, Hedwigia 58: 98. f. 19. 1916.
Other use: *Hennediella heimii* var. *brevicuspis* (Warnstorf) Zander, 1993.

Pottia heimii var. ***breviseta*** Warnstorf, Hedwigia 58: 99. f. 20. 1916.
Other use: *Hennediella heimii* var. *breviseta* (Warnstorf) Zander, 1993.

Pottia heimii var. ***drummondii*** Warnstorf, Hedwigia 58: 96. 1916.
Other use: *Hennediella heimii* var. *drummondii* (Warnstorf) Zander, 1993.

Pottia heimii var. ***eurystoma*** Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 20. 1923.
Other use: *Hennediella heimii* var. *eurystoma* (Cardot & Brotherus) Zander, 1993.

Pottia heimii var. ***lanceolata*** Warnstorf, Hedwigia 58: 98. 1916.
Other use: *Hennediella heimii* var. *lanceolata* (Warnstorf) Zander, 1993.

Pottia heimii var. ***magellanica*** Warnstorf, Hedwigia 58: 95. f. 17. 1916.
Other use: *Hennediella heimii* var. *magellanica* (Warnstorf) Zander, 1993.

Pottia heimii var. ***maxima*** Cardot, Bull. Herb. Boissier, sér. 2, 5: 1002. 1905.
Other use: *Hennediella heimii* var. *maxima* (Cardot) Zander, 1993.

Pottia heimii var. ***thaxteri*** Cardot & Thériot, Rev. Bryol., n.s. 2: 165. 1930.
Other use: *Hennediella heimii* var. *thaxteri* (Cardot & Thériot) Zander, 1993.

Pottia illyrica Latzel, Beih. Bot. Centralbl. 48(2): 481. f. 4. 1931.
Other use: *Tortula truncata* var. *illyrica* (Latzel) Zander, 1993.

Pottia intermedia var. ***corsa*** Fleischer & Warnstorf, Bot. Centralbl. 65: 299. 1896.
Other use: *Tortula modica* var. *corsa* (Fleischer & Warnstorf) Zander, 1993.

Pottia intermedia var. ***gymnandra*** Schiffner, Oesterr. Bot. Z. 47: 55. 1897.
Other use: *Tortula modica* var. *gymnandra* (Schiffner) Zander, 1993.

Pottia intermedia var. ***gymnogyna*** Schiffner, Oesterr. Bot. Z. 48: 389. 1898.
Other use: *Tortula modica* var. *gymnogyna* (Schiffner) Zander, 1993.

Pottia intermedia var. ***revoluta*** Schiffner, Oesterr. Bot. Z. 47: 55. 1897.
Other use: *Tortula modica* var. *revoluta* (Schiffner) Zander, 1993.

Pottia intermedia var. ***stenocarpa*** Velenovsky, Rozpr. České Akad. Věd, Tř. 2, Vědy Mat. Přír. 6(6): 148. 1897.
Other use: *Tortula modica* var. *stenocarpa* (Velenovsky) Zander, 1993.

Pottia intermedia var. ***tenuis*** Venturi, Musc. Trentino 31. 1899.
Other use: *Tortula modica* var. *tenuis* (Venturi) Zander, 1993.

Pottia lanceolata var. ***albidens*** Corbière, Rev. Bryol. 22: 35. 1895.
Other use: *Tortula lanceola* var. *albidens* (Corbière) Zander, 1993.

Pottia lanceolata var. ***lejolisii*** Corbière, Mém. Soc. Sci. Nat. Cherbourg 26: 238. 1889.
Other use: *Tortula lanceola* var. *lejolisii* (Corbière) Zander, 1993.

Pottia lanceolata var. ***leucodonta*** W. P. Schimper, Syn. Musc. Eur. (ed. 2) 158. 1876.
Other use: *Tortula lanceola* var. *leucodonta* (W. P. Schimper) Zander, 1993.

Pottia lanceolata var. ***macrophylla*** Warnstorf, Hedwigia 58: 133. f. 50a. 1916.
Other use: *Tortula lanceola* var. *macrophylla* (Warnstorf) Zander, 1993.

Pottia lanceolata var. ***microphylla*** Warnstorf, Hedwigia 58: 134. f. 51. 1916.
Other use: *Tortula lanceola* var. *microphylla* (Warnstorf) Zander, 1993.

Pottia lanceolata var. ***mucronata*** Amann, Bull. Soc. Vaud. Sci. Nat. 53: 85. 1920.

Other use: *Tortula lanceola* var. *mucronata* (Amann) Zander, 1993.

Pottia lanceolata var. ***ovalifolia*** Warnstorf, Hedwigia 58: 131. f. 48. 1916.

Other use: *Tortula lanceola* var. *ovalifolia* (Warnstorf) Zander, 1993.

Pottia lanceolata var. ***papillosa*** Corbière, Mém. Soc. Sci. Nat. Cherbourg 26: 237. 1889.

Other use: *Tortula lanceola* var. *papillosa* (Corbière) Zander, 1993.

Pottia ligularifolia C. Müller, Hedwigia 34: 123. 1895.

Type: Brazil. "Minas Geraës: in regione fluminis Paranahyba, in terra." *Ule 1502*. Mar 1893.

Note: not in *Index Muscorum*.

Pottia littoralis Mitten, J. Bot. 9: 4. 1871.

Other use: *Tortula truncata* var. *littoralis* (Mitten) Zander, 1993.

Pottia longirostris Hampe ex C. Müller, Syn. Musc. Frond. 1: 552. 1849.

Other use: *Hennediella longirostris* (Hampe ex C. Müller) Zander, 1993.

Pottia macrocarpa W. P. Schimper, Ann. Sci. Nat. Bot., sér. 2, 6: 145. pl. 8. 1836.

Other use: *Funaria macrocarpa* (W. P. Schimper) Zander, 1993.

Pottia mirabilis Brotherus & Paris, Rev. Bryol. 31: 118. 1904.

Other use: *Physcomitrium mirabile* (Brotherus & Paris) Zander, 1993.

Pottia nevadensis Cardot & Thériot, Bot. Gaz. 37: 365. pl. 18: f. 1. 1904.

Other use: *Tortula nevadensis* (Cardot & Thériot) Zander, 1993.

Pottia notarisii var. ***cyclopica*** Zodda, Malpighia 24: 274. 1911.

Type: Italy. "Nelle radure al Faraglione grande." *Guiseppe Zodda s.n.*

Note: not in *Index Muscorum*.

Pottia octoblepharis Spruce ex Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1871–72: 343 [Gen. Sp. Musc. 1: 191]. 1873.

Replaced name: *Weissia octoblepharis* Spruce ex Mitten, 1869.

Blocking name: *Weissia octoblepharis* (Bridel) A. Roth, 1806.

Other use: *Uleastrum octoblephare* (Spruce ex Jaeger) Zander, 1993.

Pottia oedipodioides C. Müller, Bot. Jahrb. Syst. 5: 79. 1883.

Other use: *Hennediella oedipodioides* (C. Müller) Zander, 1993.

Pottia pallida Lindberg, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 21: 220. 1864.

Other use: *Tortula pallida* (Lindberg) Zander, 1993.

Pottia pallida var. ***longicuspis*** Warnstorf, Hedwigia 58: 113. 1916.

Replaced name: *Pottia venusta* Juratzka in Unger & Kotschy, 1865.

Other use: *Tortula pallida* var. *longicuspis* (Warnstorf) Zander, 1993.

Pottia papillinervis Lorentz, Moosstudien 160. 1864.

Other use: *Barbula isoindica* Zander, 1993.

Pottia randii G. G. Kennedy, Rhodora 1: 78. pl. 5. 1899.

Other use: *Tortula randii* (G. G. Kennedy) Zander, 1993.

Pottia spegazzinii C. Müller, Flora 68: 414. 1885.

Other use: *Hennediella heimii* var. *spegazzinii* (C. Müller) Zander, 1993.

Pottia starkeana var. ***brevidens*** Latzel, Beih. Bot. Centralbl. 48(2): 483. 1931, "*starckeana*."

Other use: *Microbryum starkeanum* var. *brevidens* (Latzel) Zander, 1993.

Pottia starkeana fo. ***brevifolia*** Limpricht, Laubm. Deutschl. 1: 536. 1888.

Other use: *Microbryum starkeanum* fo. *brevifolium* (Limpricht) Zander, 1993.

Pottia starkeana fo. ***dextrorsa*** Limpricht, Laubm. Deutschl. 1: 536. 1888.

Other use: *Microbryum starkeanum* fo. *dextrorsum* (Limpricht) Zander, 1993.

Pottia starkeana var. ***fosbergii*** (E. B. Bartram) Zander, Novon 3: 92. 1993. [See Zander, R. H., 1993a.]

Basionym: *Pottia fosbergii* E. B. Bartram, 1930.

Pottia starkeana var. ***leiostoma*** Corbière in Corbière & Pitard, Bull. Soc. Bot. France 56: CCXXIV. 1909.
Other use: *Microbryum starkeanum* var. *leiostoma* (Corbière in Corbière & Pitard) Zander, 1993.
Pottia starkeana fo. ***microphyllum*** Warnstorf, Hedwigia 58: 144. 1917.
Other use: *Microbryum starkeanum* fo. *microphyllum* (Warnstorf) Zander, 1993.
Pottia starkeana var. ***submutica*** Latzel, Beih. Bot. Centralbl. 48(2): 483. 1931.
Other use: *Microbryum starkeanum* var. *submutica* (Latzel) Zander, 1993.
Pottia stevensii R. Brown ter, Trans. & Proc. New Zealand Inst. 26: 291. pl. 31: *Pottia stevensii*. 1894.
Other use: *Tortula sainsburyana* Zander, 1993.
Pottia subplanomarginata Dixon, Trans. Roy. Soc. South Africa 18: 253. f. 5. 1930 [1929].
Other use: *Microbryum subplanomarginatum* (Dixon) Zander, 1993.
Pottia truncata var. ***minutissima*** Warnstorf, Hedwigia 58: 117. 1916.
Other use: *Tortula truncata* var. *minutissima* (Warnstorf) Zander, 1993.
POTTIACEAE W. P. Schimper, 1855 [1856], conserved name.
Pottiaceae tribe **Bryoerythrophylleae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 107. 1993. [See Zander, R. H., 1993b.]
Type: *Bryoerythrophyllum* Chen Pan-chieh, holotype.
Pottiaceae subfam. **Chionolomoideae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 76. 1993. [See Zander, R. H., 1993b.]
Type: *Chionoloma* Dixon, holotype.
Pottiaceae subfam. **Erythrophyllopsoideae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 71. 1993. [See Zander, R. H., 1993b.]
Type: *Erythrophyllopsis* Brotherus, holotype.
Pottiaceae subfam. **Gertrudielloideae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 74. 1993. [See Zander, R. H., 1993b.]
Type: *Gertrudiella* Brotherus, holotype.
Pottiaceae tribe **Tetracoscinodontieae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 105. 1993. [See Zander, R. H., 1993b.]
Type: *Tetracoscinodon* R. Brown ter, holotype.
Pottiaceae subfam. **Timmielloideae** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 68. 1993. [See Zander, R. H., 1993b.]
Type: *Timmiella* (De Notaris) Limpricht, holotype.
PSEUDALOINA Delgadillo M., 1982 [1983].
Pseudaloina woodii Delgadillo M., Bryologist 85: 401. f. 1–6. 1982 [1983].
Other use: *Crossidium woodii* (Delgadillo M.) Zander, 1993.
PSEUDOCROSSIDIUM R. S. Williams, 1915.
Pseudocrossidium austrorevolutum (Bescherelle in Britton) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula austrorevoluta* Bescherelle in Britton, 1896.
Pseudocrossidium carinatum (Gillies ex Greville) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula carinata* Gillies ex Greville, 1830.
Pseudocrossidium crinitum (Schultz) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula crinita* Schultz, 1823.
Pseudocrossidium crinitum var. ***obscurum*** (Dixon) Macmillan & Fife in Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Tortula flavinervis* var. *obscura* Dixon, 1937.
Pseudocrossidium mendozense (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula mendozensis* Mitten, 1869.
Pseudocrossidium perrevolutum (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula perrevoluta* C. Müller, 1882.

Pseudocrossidium perrevolutum var. ***acutifolium*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula subrevoluta* var. *acutifolia* C. Müller, 1879.

Pseudocrossidium perrevolutum var. ***linearifolium*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula subrevoluta* var. *linearifolia* C. Müller, 1879.

Pseudocrossidium porphyreoneurum (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 119. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula porphyreoneura* C. Müller, 1872.

PSEUDOPILOTRICHUM (C. Müller) W. R. Buck & B. H. Allen in W. R. Buck, J. Hattori Bot. Lab. 75: 69. 1994. [See Buck, W. R., 1994a.]
Basionym: *Neckera* sect. *Pseudopilotrichum* C. Müller, 1850.

Pseudopilotrichum pandurifolium (C. Müller) W. R. Buck & B. H. Allen in W. R. Buck, J. Hattori Bot. Lab. 75: 70. 1994, "*panduraefolium*." [See Buck, W. R., 1994a.]
Basionym: *Neckera pandurifolia* C. Müller, 1855.

Pseudopilotrichum pentastichum (Bridel) W. R. Buck & B. H. Allen in W. R. Buck, J. Hattori Bot. Lab. 75: 70. 1994. [See Buck, W. R., 1994a.]
Basionym: *Hypnum pentastichum* Bridel, 1801.

Pseudopilotrichum turgidellaceum (C. Müller ex Dusén) W. R. Buck & B. H. Allen in W. R. Buck, J. Hattori Bot. Lab. 75: 70. 1994. [See Buck, W. R., 1994a.]
Basionym: *Pilotrichella turgidellacea* C. Müller ex Dusén, 1895.

PSEUDOSYMBLEPHARIS Brotherus, 1924.

****Pseudosymblepharis angustifolia*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Pseudosymblepharis cavernarum (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum cavernarum* Brotherus, 1926.

Pseudosymblepharis circinnatula (Brotherus in Voeltzkow) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum circinnatulum* Brotherus in Voeltzkow, 1908.

Pseudosymblepharis khasiana (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula khasiana* Mitten, 1859.

Pseudosymblepharis pallidens Dixon, J. Bombay Nat. Hist. Soc. 39: 776. pl. 1: f. 3. 1937.
Other use: *Trichostomum pallidens* (Dixon) Zander, 1993.

Pseudosymblepharis perlongifolia (J. Fröhlich) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum perlongifolium* J. Fröhlich, 1962 [1963].

Pseudosymblepharis syrrhopodontoides (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortella syrrhopodontoides* Dixon, 1938.

Pseudosymblepharis verrucosa (Brotherus & Paris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 80. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum verrucosum* Brotherus & Paris, 1909.

PSEUDOTAXIPHYLLUM Iwatsuki, 1987.

Pseudotaxiphyllum laetevirens (Dixon & Luisier ex F. Koppe & Düll) Hedenäs, Nova Hedwigia 54: 448. 1992. [See Hedenäs, L., 1992.]
Basionym: *Isopterygium elegans* var. *laetevirens* Dixon & Luisier ex F. Koppe & Düll, 1986.
Note: incorrectly cited from Bryophyt. Biblioth. 44: 149. 1992 in *Index of Mosses, 1990–1992*.

PSEUDOTIMMIELLA Bizot, 1980.
Pseudotimmiella pocsii Bizot, Cryptog. Bryol. Lichénol. 1: 425. pl. 3: f. 5. 1980.
Other use: *Diphyscium pocsii* (Bizot) Zander, 1993.
PSEUDOTRACHYPUS Potier de la Varde & Thériot in Thériot, 1940.
Pseudotrachypus convolvens (Mitten) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium convolvens* Mitten, 1859.
Pseudotrachypus elongatus (R. S. Williams) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Barbella elongata* R. S. Williams, 1914.
Pseudotrachypus martinicensis (Brotherus in Urban) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Papillaria martinicensis* Brotherus in Urban, 1903.
Pseudotrachypus spiculatus (Mitten) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium spiculatum* Mitten, 1859.
Pseudotrachypus stevensii (Renauld & Cardot) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium stevensii* Renauld & Cardot, 1896.
Pseudotrachypus wallichii (Bridel) W. R. Buck, J. Hattori Bot. Lab. 75: 63. 1994. [See Buck, W. R., 1994a.]
Basionym: *Hypnum wallichii* Bridel, 1827.
PSILOPILUM Bridel, 1827.
Psilopilum tapes var. ***apiculatum*** Cardot, Wiss. Erb. Schwed. Südpolar-Exp. 4(8): 155. 1908.
Other use: *Notoligotrichum tapes* var. *apiculatum* (Cardot) Schiavone, 1993.
PTEROGONIELLA W. P. Schimper ex Brotherus, 1897.
Pterogoniella undulata Renauld & Cardot, Suppl. Prodr. Fl. Bryol. Madagascar 67. 1909.
Other use: *Meiothecium undulatum* (Renauld & Cardot) O'Shea, 1995.
PTERYGONEURUM Juratzka, 1882, conserved orthography, "*Pterigoneurum*."
Pterygoneurum compactum Cano, J. Guerra & Ros, Bryologist 97: 412. f. 1–15. 1994. [See Cano, M. J., J. Guerra & R. M. Ros, 1994.]
Type: Spain. "Alicante. Elche, El Hondo lagoon, near Canal de Riegos, UTM: XH9927." *Ros & Cano s.n.* Mar 24, 1993. Holotype: MUB. Paratypes cited.
PTYCHOMITRIUM Fürnrohr, 1829, conserved orthography, "*Pthychomitrium*."
Ptychomitrium soulae C. Müller in Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 33(2): 118. 1895.
Other use: *Trichostomum soulae* (C. Müller in Renauld & Cardot) Zander, 1993.
*PYLAISAEA Bruch & W. P. Schimper in B.S.G., 1851.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Pylaisaea guineensis Brotherus & Paris, Rev. Bryol. 31: 88. 1904, "*Pylaisia*."
Other use: *Rhacopilopsis guineensis* (Brotherus & Paris) W. R. Buck, 1993.
PYLAISIELLA Kindberg ex Grout, 1896.
Pylaisiella frahmii W. R. Buck, Trop. Bryol. 8: 214. 1993. [See Buck, W. R., 1993.]
Type: Rwanda. "Pref. de Cyangugu: forêt de Nyungwe, BRYOTROP locality 112, Uwinka Station along road from Butave to Cyangugu, 2,100 m." *J.-P. Frahm 6448*. Holotype: NY.
PYRRHOBRYUM Mitten, 1868.
Pyrrhobryum mnioides subsp. ***contortum*** (Wilson in J. D. Hooker) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Rhizogonium mnioides* var. *contortum* Wilson in J. D. Hooker, 1859.
QUAESTICULA Zander, Bull. Buffalo Soc. Nat. Sci. 32: 186. 1993.
Type: *Weissia navicularis* Mitten, *Q. navicularis* (Mitten) Zander, holotype.
Original placement: Pottiaceae.

Quaesticula navicularis (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 186. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia navicularis* Mitten, 1869.

RACOMITRIUM Bridel, 1819 [1819].

Racomitrium subsect. ***Andicola*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 64. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. dichelymoides* Herzog, holotype.

Racomitrium sect. ***Chrysea*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 64. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. laevigatum* Jaeger, holotype.

Racomitrium subsect. ***Cucullaria*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 64. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. cucullatifolium* Hampe, holotype.

Racomitrium subgen. ***Ellipticodryptodon*** (Vilhelm) Bednarek-Ochyra & Ochyra, Fragm. Florist. Geobot. 39: 362. 1994. [See Bednarek-Ochyra, H. & R. Ochyra, 1994.]
Basionym: *Dryptodon* subgen. *Ellipticodryptodon* Vilhelm, 1923.

Racomitrium sect. ***Elongata*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 94. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. elongatum* Frisvoll, holotype.

Racomitrium sect. ***Emersa*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 65. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Grimmia emersa* C. Müller, *R. emersum* (C. Müller) Jaeger, holotype.

Racomitrium sect. ***Fascicularia*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 130. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum fasciculare* Hedwig, *R. fasciculare* (Hedwig) Bridel, holotype.

Racomitrium subsect. ***Grimmiformia*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 64. 1995, "*Grimmiaeformia*." [See Bednarek-Ochyra, H., 1995.]
Type: *R. grimmioïdes* Herzog, holotype.

Racomitrium subsect. ***Hydrophilus*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 157. 1995, "*Hycrophilum*." [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum aquaticum* Bridel ex Schrader, *R. aquaticum* (Bridel ex Schrader) Bridel.

Racomitrium subsect. ***Japonica*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 63. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. japonicum* Dozy & Molkenboer, holotype.

Racomitrium sect. ***Lawtonia*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 65. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. lawtonae* Ireland, holotype.

Racomitrium sect. ***Marginata*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 175. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum microcarpum* Hedwig, *R. microcarpum* (Hedwig) Bridel, holotype.

Racomitrium subsect. ***Minima*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 63. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *R. barbuloides* Cardot, holotype.

Racomitrium subgen. ***Niphotrichum*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 70. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum canescens* Hedwig, *Racomitrium canescens* (Hedwig) Bridel, holotype.

Racomitrium sect. ***Pilifera*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 64. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Grimmia varia* Mitten, *R. varium* (Mitten) Jaeger, holotype.

Racomitrium sect. ***Ptychophylla*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 65. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Grimmia phychophylla* Mitten in W. Lindsay, *R. ptychophyllum* (Mitten in W. Lindsay) Mitten in J. D. Hooker.

Racomitrium sect. ***Stenotrichum*** (A. Chevalier) Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 143. 1995. [See Bednarek-Ochyra, H., 1995.]
Basionym: *Trichostomum* subgen. *Stenotrichum* A. Chevalier, 1827.

Racomitrium sect. ***Subsecunda*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 65. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum subsecundum* W. J. Hooker & Greville in W. J. Hooker, *R. subsecundum* (W. J. Hooker & Greville in W. J. Hooker) Wilson in Mitten & Wilson.

Racomitrium sect. ***Sudetica*** Bednarek-Ochyra, Fragm. Florist. Geobot. Ser. Polon. 2: 221. 1995. [See Bednarek-Ochyra, H., 1995.]
Type: *Trichostomum sudeticum* Funck, *R. sudeticum* (Funck) Bruch & Schimper in B.S.G.

Racomitrium hespericum Sérgio, J. Muñoz & Ochyra, Bryologist 98: 112. f. 1–25. 1995. [See Sérgio, C., J. Muñoz & R. Ochyra, 1995.]
Type: Portugal. "29T PE26, Beira Baixa, Serra da Estrela, a 1 km das Penhas da Saúde, 1,400 m." *Sérgio 7785.* Jan 21, 1992. Holotype: LISU; isotypes: IBA, KRAM-B. Other indicated distribution: Spain.

RACOPILUM Palisot de Beauvois, 1805.

Racopilum cuspidigerum var. ***convolutaceum*** (C. Müller) Zanten & Dijkstra in Zanten & A. Hofman, Fragm. Florist. Geobot. 40: 411. 1995. [See Zanten, B. O. van & A. Hofman, 1995.]
Basionym: *Hypopterygium convolutaceum* C. Müller, 1850.

RADULINA W. R. Buck & B. C. Tan, 1989 [1990].

Radulina borbonica (Bélanger) W. R. Buck, Trop. Bryol. 8: 208. 1993. [See Buck, W. R., 1993.]
Basionym: *Leskea borbonica* Bélanger, 1846.

RENAULDIA C. Müller ex Renauld, 1891.

****Renauldia hoehnelii*** var. ***angustifolia*** Tosco & Piovano, Allionia 4: 124. f. 8. 1956.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Renauldia hoehnelii* var. *angustifolia* Dixon in Rendle, 1930.
Type: Kenya. Central Province: Isanguni, 1800 m, *Balbo s.n.* 1924. Holotype: TOM.
Note: not in *Index Muscorum.*

Renauldia hoehnelii var. ***angustifolia*** Dixon in Rendle, J. Bot. 68: 117. 1930. [See Dixon, H. N., 1930.]
Type: Kenya. "On fallen trees, near Rogati River, Camphor forest, Mt. Kenya, alt. about 7,000 ft." *A. B. Rendle 502.* Aug 1929. Holotype: BM.
Other use: *Calyptothecium hoehnelii* var. *angustifolia* (Dixon in Rendle) Kis, 1984
Note: not in *Index Muscorum.*

RHACHITHECIUM Brotherus ex Le Jolis, 1895.

Rhachithecium welwitschii (Duby) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]
Basionym: *Zygodon welwitschii* Duby, 1872.

RHACOPILOPSIS Renauld & Cardot, 1900.

Rhacopilopsis flexilis (Renauld & Cardot) W. R. Buck, Trop. Bryol. 8: 215. 1993. [See Buck, W. R., 1993.]
Basionym: *Microthamnium flexile* Renauld & Cardot, 1890.

Rhacopilopsis guineensis (Brotherus & Paris) W. R. Buck, Trop. Bryol. 8: 215. 1993. [See Buck, W. R., 1993.]
Basionym: *Pylaisaea guineensis* Brotherus & Paris, 1904.

Rhacopilopsis kilimandscharica (Brotherus & Potier de la Varde) W. R. Buck, Trop. Bryol. 8: 215. 1993. [See Buck, W. R., 1993.]
Basionym: *Acanthocladiella kilimandscharica* Brotherus & Potier de la Varde, 1924.
Rhacopilopsis transvaaliensis (Thériot & Dixon in Sim) W. R. Buck, Trop. Bryol. 8: 216. 1993. [See Buck, W. R., 1993.]
Basionym: *Acanthocladiella transvaaliensis* Thériot & Dixon in Sim, 1926.

RHAMPHIDIUM Mitten, 1869.
Rhamphidium montanus (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 278. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula montana* Mitten, 1869.
Rhamphidium vaginatum Mitten, J. Linn. Soc., Bot. 12: 45. 1869.
Replaced name: *Trichostomum vaginatum* Dozy & Molkenboer, 1844.
Blocking name: *Trichostomum vaginatum* W. J. Hooker, 1818.
Note: *Index Muscorum* cites "Broth., Nat. Pfl. 1(3): 393. 1902," but Mitten clearly made the new name in 1869.

*RHAPHIDOSTEGIUM (W. P. Schimper in B.S.G.) De Notaris, 1867
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Rhaphidostegium dixonii Thériot, Recueil Publ. Soc. Havraise Études Diverses 1924(2): 96. 1924.
Replaced name: *Rhaphidostegium denstrete* Thériot, 1923.
Blocking name: *Rhaphidostegium densirete* Herzog, 1910.
Other use: *Sematophyllum dixonii* (Thériot) O'Shea, 1995.
Rhaphidostegium rigescens Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 499. 1915.
Other use: *Sematophyllum rigescens* (Cardot in Grandidier) O'Shea, 1995.

RHIZOGONIUM Bridel, 1827.
Rhizogonium mnioides var. ***contortum*** Wilson in J. D. Hooker, Fl. Tasman. 2: 216. 1859.
Other use: *Pyrrhobryum mnioides* subsp. *contortum* (Wilson in J. D. Hooker) Fife, 1995.

RHYNCHOSTEGIELLA (B.S.G.) Limpricht, 1896.
Note: proposed for conservation; see Taxon 44: 623. 1995.
Rhynchostegiella novae-zealandiae Dixon, New Zealand Inst. Bull. 3(6): 370. 1929.
Other use: *Eurhynchium novae-zealandiae* (Dixon) Fife, 1995.

RHYNCHOSTEGIUM Bruch & W. P. Schimper in B.S.G., 1852.
Rhynchostegium omocrates W. R. Buck, Trop. Bryol. 8: 203. 1993. [See Buck, W. R., 1993.]

RIGODIUM Kunze ex Schwägrichen, 1844 [1845].
Rigodium robustum Brotherus in Skottsberg, Nat. Hist. Juan Fernandez 2(3): 443. 1924.
Other use: *Rigodium toxarion* var. *robustum* (Brotherus in Skottsberg) Zomlefer, 1993.
Rigodium toxarion var. ***robustum*** (Brotherus in Skottsberg) Zomlefer, Bryologist 96: 45. 1993. [See Zomlefer, W. B., 1993.]
Basionym: *Rigodium robustum* Brotherus in Skottsberg, 1924.

SCHIMPERELLA Thériot, 1926.
Schimperella bello-intricata (Brotherus) W. R. Buck, Trop. Bryol. 8: 204. 1993. [See Buck, W. R., 1993.]
Basionym: *Hypnum bello-intricatum* Brotherus, 1897.

SCHISTIDIUM Bruch & W. P. Schimper in B.S.G., 1845, conserved name.
Schistidium apocarpum* var. ***boreale* Düll, Bryol. Beitr. 8/9: 74. 1992. [See Düll, R., 1992.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).
Note: not in *Index of Mosses, 1990–1992*.
Schistidium marginatum W. J. Hooker & Wilson, London J. Bot. 3: 539. 1844.
Other use: *Hennediella marginata* (W. J. Hooker & Wilson) Zander, 1993.

SCHIZOMITRIUM Bruch & W. P. Schimper in B.S.G., 1851, rejected against *Callicostella*.

Schizomitrium diatomophilum (C. Müller) B. H. Allen & Crosby, J. Hattori Bot. Lab. 61: 56. 1986. [See Allen, B. H. & M. R. Crosby, 1986.]
Basionym: *Hookeria diatomophila* C. Müller, 1898.
Note: not in *Index of Mosses, 1963–1989*.

Schizomitrium microcarpum (Ångström) Yano, J. Hattori Bot. Lab. 66: 399. 1989. [See Yano, O., 1989.]
Basionym: *Callicostella microcarpa* Ångström, 1876.
Note: not in *Index of Mosses, 1963–1989*.

Schizomitrium paulense (Brotherus) Yano, J. Hattori Bot. Lab. 66: 399. 1989. [See Yano, O., 1989.]
Basionym: *Callicostella paulensis* Brotherus, 1907.
Note: not in *Index of Mosses, 1963–1989*.

SCHOENOBRYUM Dozy & Molkenboer, 1848.

Schoenobryum coffeae var. ***laxiretis*** (Thériot ex Bizot) Duarte, Fontqueria 42: 118. 1995. [See Duarte Bello, P. P., 1995.]
Basionym: *Acrocryphaea coffeae* var. *laxiretis* Thériot ex Bizot, 1965.

Schoenobryum robustum (Brotherus in Mildbraed) Manuel, 1977.
Note: redundant combination in Frahm, Trop. Bryol. 8: 165. 1993.

SCOPELOPHILA (Mitten) Lindberg, 1872.

Scopelophila norrisii Zander, Bryologist 88: 353. f. 1–6. 1985 [1986].
Other use: *Weisiopsis norrisii* (Zander) Zander, 1993.

SEMATOPHYLLUM Mitten, 1864.

Sematophyllum asperifolium Thwaites & Mitten, J. Linn. Soc., Bot. 13: 319. 1873.
Other use: *Clastobryophilum asperifolium* (Thwaites & Mitten) B. C. Tan, 1993.

Sematophyllum aureonitidum E. B. Bartram, Farlowia 2: 319. 1946.
Other use: *Warburgiella aureonitida* (E. B. Bartram) H. Akiyama, 1993.

Sematophyllum calamicola (C. Müller) Yano, J. Hattori Bot. Lab. 66: 389. 1989. [See Yano, O., 1989.]
Basionym: *Cupressina calamicola* C. Müller, 1901.
Note: not in *Index of Mosses, 1963–1989*.

Sematophyllum cellulosum W. R. Buck, Trop. Bryol. 8: 209. 1993. [See Buck, W. R., 1993.]
Type: Rwanda. "Pref. de Cyangugu: forêt de Nyungwe, BRYOTROP locality 111, Uwinka Station along road from Butare to Cyangugu, 2,300 m." *Pócs 8360*. Aug 14, 1991. Holotype: NY.

Sematophyllum corticolum (Ångström) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Plagiothecium corticola* Ångström, 1873.

Sematophyllum dixonii (Thériot) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Rhaphidostegium dixonii* Thériot, 1924.

Sematophyllum flavovesiculosum W. R. Buck, Trop. Bryol. 8: 209. 1993. [See Buck, W. R., 1993.]
Type: Rwanda. "Pref. de Cyangugu: forêt de Nyungwe, BRYOTROP locality 106, Karamba, 2,000 m." *Pócs 6239*. Aug 13, 1991. Holotype: NY.

Sematophyllum glaziovii (Hampe) Yano, J. Hattori Bot. Lab. 66: 389. 1989. [See Yano, O., 1989.]
Basionym: *Hypnum glaziovii* Hampe, 1875.
Note: not in *Index of Mosses, 1963–1989*.

Sematophyllum hamulatum Fleischer, Hedwigia 44: 316. 1905.
Other use: *Acroporium stramineum* var. *hamulatum* (Fleischer) B. C. Tan, 1994.

Sematophyllum nanopyxis (C. Müller ex Geheeb) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Hypnum nanopyxis* C. Müller ex Geheeb, 1881.

Sematophyllum nebulosum W. R. Buck, Trop. Bryol. 8: 210. 1993. [See Buck, W. R., 1993.]
Type: Zaïre. "Prov. Kivu: Kahuzi-Biega National Park, BRYOTROP locality 139, Mt. Biega, 2 km N of Kaziruziru park gate, 2,250 m." *Frey & Kürschner 7034*. Aug 30, 1991. Holotype: NY; isotype: herb. Frey.
Sematophyllum replicatum (Hampe) Dixon, J. Bot. 59: 133. 1921. [See Dixon, H. N., 1921.]
Basionym: *Hypnum replicatum* Hampe, 1872.
Note: not in *Index Muscorum*.
Sematophyllum rigescens (Cardot in Grandidier) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Rhaphidostegium rigescens* Cardot in Grandidier, 1915.
Sematophyllum socotrense W. R. Buck, Kürschner & Mies, Nova Hedwigia 61: 476. f. 3–4. 1995. [See Al-Gifri, A. N., H. Kürschner & B. Mies, 1995.]
Type: Yemen. "Aden, Socotra: Dimele ridge (Aduna), a5 km south of Hadibu. On bark of woody shrubs; 1000 m; expo. N." *B. Mies 395*. Jan 16, 1994. Holotype: NY, isotypes: M, herb. Kürschner. Paratype cited.
Sematophyllum stylites W. R. Buck, Trop. Bryol. 8: 210. 1993. [See Buck, W. R., 1993.]
Type: Zaïre. "Prov. Kivu: Kahuzi-Biega national Park, BRYOTROP locality 144, Mt. Kahuzi, . . . near Karashamwa Post on the E slope of the main ridge, 2,300 m." *Pócs 7641*. Sep 3, 1991. Holotype: NY. Paratypes cited.
Sematophyllum ulicinum var. ***exiguum*** Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 345. 1926.
Other use: *Acroporium exiguum* (Brotherus) W. R. Buck & Schäfer-Verwimp, 1991 [1993].
SINSKEA W. R. Buck, J. Hattori Bot. Lab. 75: 64. 1994. [See Buck, W. R., 1994a.]
Type: *Meteorium phaeum* Mitten, *S. phaea* (Mitten) W. R. Buck, holotype.
Original placement: Meteoriaceae.
Sinskea flammea (Mitten) W. R. Buck, J. Hattori Bot. Lab. 75: 64. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium flammeum* Mitten, 1859.
Sinskea flammea subsp. ***ochracea*** (Noguchi) Redfearn & B. C. Tan, Trop. Bryol. 10: 68. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Barbella ochracea* Noguchi, 1936.
Sinskea flammea subsp. ***rufifolioides*** (Brotherus) Redfearn & B. C. Tan, Trop. Bryol. 10: 68. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Basionym: *Chrysocladium rufifolioides* Brotherus, 1910.
Sinskea phaea (Mitten) W. R. Buck, J. Hattori Bot. Lab. 75: 64. 1994. [See Buck, W. R., 1994a.]
Basionym: *Meteorium phaeum* Mitten, 1859.
SPHAGNUM Linnaeus, 1753.
Sphagnum aequalipunctatum H. Crum, Bryologist 98: 589. 1995. [See Crum, H., 1995b.]
Replaced name: *Sphagnum aequiporosum* H. Crum, 1994.
Blocking name: *Sphagnum aequiporosum* Warnstorf, 1915.
•***Sphagnum aequiporosum*** H. Crum, J. Hattori Bot. Lab. 77: 235. f. 2. 1994. [See Crum, H., 1994.]
•illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Sphagnum aequiporosum* Warnstorf, 1915.
Correct name: *Sphagnum aequalipunctatum* H. Crum, 1995.
Type: Brazil. "Paraná: along road between Palmeira and Curitibi, mun. Balsa Nova, Serra de Puruña, on wet rock." *D. Griffin & D. M. Vital 118*. Jun 1, 1974. Holotype: MICH; isotype: FLAS. Paratypes cited.

Sphagnum algentryi H. Crum, Bryologist 98: 265. f. 1a–g. 1995. [See Crum, H., 1995a.]
Type: Ecuador. "Morona-Santiago, Gualaquiza Cantón, crest of Cordillera del Cóndor, 15 km ENE of Gualaquiza, 2,500 m." *A. Gentry 80461*. Holotype: MO.

Sphagnum antioquiense H. Crum, Bryologist 98: 583. f. 5. 1995. [See Crum, H., 1995b.]
Type: Colombia. "Antioquia. Mun. Yaramul, Llanos de Cuivá, ca. 06°45′N, 75°30′E." *S. P. Churchill, R. Callejas, P. Acevedo & F. Saldarriaga 14877*. Holotype: NY.

Sphagnum austro-americanum H. Crum, J. Hattori Bot. Lab. 74: 151. f. 4. 1993. [See Crum, H., 1993b.]
Type: Chile. "Patagonia occ. in insulis Guaitecas in rupibus irrigatis." *P. Dusén 609*. Apr 30, 1897. Holotype: NY.

****Sphagnum austro-americanum*** H. Crum, Bryologist 98: 588. f. 9. 1995. [See Crum, H., 1995b.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Sphagnum austro-americanum* H. Crum, 1993.
Type: Colombia. "Antioquia. Vereda Manyanares, Cerro de la Vieja, Finca La Montquita, NE de Sonsón, 5°45′N, 75°14′W, 2515–3000 m." *S. P. Churchill & J. Betancur 18752*. Holotype: MICH; isotype: NY.

Sphagnum balslevii H. Crum, J. Hattori Bot. Lab. 77: 249. f. 12. 1994. [See Crum, H., 1994.]
Type: Ecuador. "Loja: Loma de Oro, between Loja and Saraguro, just below short-wave relay tower on access road with entrance 10 km S of Saraguro, cloud forest at 3350 m." *William C. Steere & Henrik Balslev 25904*. Holotype: MICH; isotype: NY. Paratypes cited.

Sphagnum boyacanum H. Crum, Contr. Univ. Michigan Herb. 20: 133. f. 5. 1995. [See Crum, H., 1995d.]
Type: Colombia. "Boyaca: Dpto. Boyaca, Mpio. Chita, carretera Chita-Socha antes de llegar al Cardón, 3400 m." *Margarita Escobar A. & José Santos* [*sic*] *497*. Jul 28, 1985. Holotype: NY.

Sphagnum chi-chiense H. Crum, J. Hattori Bot. Lab. 77: 236. f. 3. 1994. [See Crum, H., 1994.]
Type: Guyana. "Cuyuni-Mazaruni region, Chi-Chi Mountain Range, ± 2 km W of Chi-Chi Falls, S bank of Mazaruni River, 5°34′N, 60°13′W, on rock in waterfall, scrub formation on steep cliff, 550 m." *J. J. Pipoly 10228*. Feb 17, 1987. Holotype: NICH; isotype: NY.

Sphagnum chi-chiense var. ***uvidulum*** H. Crum, J. Hattori Bot. Lab. 77: 237. f. 4. 1994. [See Crum, H., 1994.]
Type: Brazil. "Bahia: mun. Rio de Contas, Pico das Almas, vertente leste, Campo do Queiroz, 13°32′S, 41°57′W, 1500 m." *R. D. Harley & D. J. Hind 26644*. Nov 27, 1988. Holotype: NY.

Sphagnum columniforme H. Crum, J. Hattori Bot. Lab. 77: 233. f. 1. 1994. [See Crum, H., 1994.]
Type: Brazil. "Bahia: mun. Ilhéus, 2 km S of Olivança on road to Una, on moist sand in partial shade in *Restinga* forest." *B. M. Boom, S. A. Mori & A. M. de Carvalho 715*. Apr 19, 1981. Holotype: NY.

Sphagnum costae H. Crum & Pinheiro da Costa, Cryptog. Bryol. Lichénol. 15: 111. f. 1: a–e. 1994. [See Crum, H. & D. Pinheiro da Costa, 1994.]
Type: Brazil. "Rio de Janeiro, mun. Nova Friburgo, Morro do Curuzu, no solo da mata protegido pela vegetação herbácea, umbrofilo e úmido, alt. ± 1300 m." *D. Pinheiro da Costa et al. 290*. Jul 15, 1987. Holotype: MICH; isotype: RB.

Sphagnum costae var. ***confertorameum*** H. Crum & Pinheiro da Costa, Cryptog. Bryol. Lichénol. 15: 112. f. 1: f–j. 1994. [See Crum, H. & D. Pinheiro da Costa, 1994.]
Type: Brazil. "Rio de Janeiro, mun. Friburgo, Morro do Curuzu, no solo da mata protegido pela vegetação herbácea,

umbrofilo e úmido, ± 1450 m." *D. P. Costa et al 301.* Jul 15, 1987. Holotype: MICH; isotype: RB.

Sphagnum costae var. ***seriatum*** H. Crum & Pinheiro da Costa, Cryptog. Bryol. Lichénol. 15: 114. f. 2. 1994. [See Crum, H. & D. Pinheiro da Costa, 1994.]

Type: Brazil. "Rio de Janeiro, mun. Nova Friburgo, Macaé de Cima, sobre barranco argiloso a beira da estrada, recobrindo grande extensão deste, exposta e úmida, 1040 m." *D. P. Pinheiro da Costa et al. 602.* May 3, 1988. Holotype: MICH; isotypes: RB.

Sphagnum cribriforme H. Crum, Bryologist 96: 458. 1993. [See Crum, H., 1993a.]

Replaced name: *Sphagnum perforatum* var. *rotundifolium* Warnstorf in Brotherus, 1895.

Blocking name: *Sphagnum rotundifolium* C. Müller & Warnstorf, 1897.

Sphagnum cundinamarcanum H. Crum, Contr. Univ. Michigan Herb. 20: 129. f. 1. 1995. [See Crum, H., 1995d.]

Type: Colombia. "Cundinamarca: Mpio. Aquitania, Páramo Cintas, carretera Aquitania-Pajarito, 3300 m." *Margarita Escobar Acosta & José Santa 537.* Jul 29, 1985. Holotype: NY.

Sphagnum curvatulum H. Crum, J. Hattori Bot. Lab. 74: 145. f. 1. 1993. [See Crum, H., 1993b.]

Type: Ecuador. "Prov. Azuay, Nudo de Portere, W of Cuenca, Páramo de Soldados on road to Caucha, in wet area, lake shore, 3,700 m alt." *Simon Laegaard 53239A.* Oct 24, 1984. Holotype: MICH; isotype: NY. Paratype cited.

Sphagnum curvatulum var. ***steereanum*** H. Crum, Bryologist 98: 589. 1995. [See Crum, H., 1995b.]

Replaced name: *Sphagnum steerei* H. Crum, 1993.

Blocking name: *Sphagnum steerei* Andrus, 1988.

Sphagnum cuspidatum var. ***septiculatum*** Åberg, Meddel. Värmlands Naturhist. Fören. 4: 20. f. 6. 1933. [See Aberg, G., 1933.]

Note: not in *Index Muscorum.*

Sphagnum engelii H. Crum, Bryologist 98: 265. f. 2a–e. 1995. [See Crum, H., 1995a.]

Type: Falkland Islands. "West Falklands. Fox Bay, partially submerged in depression, mosaic of *Empetrum* heath and peat bogs near peat cutting in Ram Paddock, 50–65 m." *J. J. Engel 3517.* Holotype: NY; isotype: MICH.

****Sphagnum frahmii*** H. Crum, Contr. Univ. Michigan Herb. 20: 130. f. 2. 1995. [See Crum, H., 1995d.]

*invalid, holotype not indicated (Article 37.1, *Tokyo Code*).

Type: Brazil. "São Paul: an der Küstenstrasse SP55 zwischen Peruibe und Itahaem, feuchter Restingawald und anschliessende offene Sandflächen, ca. 5 m.s.m." *J.-P. Frahm 1874.* Jul 17, 1977. Type: "MICH, ALTA." Additional specimens cited.

Sphagnum fraudulentum H. Crum, Contr. Univ. Michigan Herb. 20: 139. f. 9. 1995. [See Crum, H., 1995d.]

Type: Venezuela. "Amazonas: Dpto. Río Negro, Cerro de la Neblina, NE end of NW plateau, summit camp no. 10, 12.5 km NNW of Pico Phelps, 16.5 km NE of base camp, 0°54′34″N, 66°02′30″W, 1690 m." *William R. Buck 12910.* Feb 12–13, 1985. Holotype: MICH; isotype: NY.

Sphagnum funkiae H. Crum, J. Hattori Bot. Lab. 77: 238. f 5. 1994. [See Crum, H., 1994.]

Type: Venezuela. "Amazonas: Dpto. Río Negro, Cerro de la Neblina, 2.8 km NE of Pico Phelps (Neblina), 00°49′40″N, 65°59′W, 2085–2100 m alt., swamp meadow surrounded by low forest." *Vicki A. Funk 6234.* Feb 17–26, 1984. Holotype: NY.

Sphagnum grasslii H. Crum, Fragm. Florist. Geobot. 40: 169. f. 2. 1995. [See Crum, H., 1995c.]
Type: Canada. "Ontario. Sudbury Co.: near East Knob, Cloche Mts." *Carl O. Grassl 6076.* Aug 29, 1932. Holotype: MICH.

Sphagnum hamiltonii H. Crum, Bryologist 98: 579. f. 3. 1995. [See Crum, H., 1995b.]
Type: Peru. "San Martin. Pataz district about 30 km E of Parcoy, Río Apisoncho, in depressions between grass-tussocks in puna." *A. C. Hamilton & P. N. Holligan 18.* Aug 1–15, 1965. Holotype: MICH; isotypes: CGE, NY.

Sphagnum herteri H. Crum, Fragm. Florist. Geobot. 40: 172. f. 4. 1995. [See Crum, H., 1995c.]
Type: Uruguay. "Depto. de Canalones. Floresta, 20 m." *W. G. Herter s.n.* Jul 6, 1947. Holotype: MICH.

Sphagnum huilense H. Crum, Bryologist 98: 581. f. 4. 1995. [See Crum, H., 1995b.]
Type: Colombia. "Huila. Parque Nacional de los Guácharos y Cerro Punta, motorral muy húmedo, en suelo entre Bromeliaceae, 2600 m." *A. M. Cleef 5080.* Aug 3, 1972. Holotype: MICH; isotype: FLAS.

Sphagnum incommodum H. Crum, J. Hattori Bot. Lab. 77: 240. f. 6. 1994. [See Crum, H., 1994.]
Type: Ecuador. "Azuay: Gualaceo-Sucúa road, E of Cuenca, on wet roadside cliffs in highest pass and W of it, 3450 m." *William C. Steere 27747.* Oct 23, 1984. Holotype: MICH; isotype: NY. Paratypes cited.

Sphagnum juliforme H. Crum, J. Hattori Bot. Lab. 77: 241. f. 7. 1994. [See Crum, H., 1994.]
Type: Venezuela. "Bolívar: Chimantá Nassif [*sic*], rapids of Río Apácara, over igneous rocks, 1/4 mi. downstream from mouth of Río Abácapa, western side of Apácara tepui, along stream banks of fast water, 415 m." *Julian A. Steyermark 74664.* Mar 29, 1953. Holotype: NY; isotype: MICH.

Sphagnum laxirameum H. Crum, Contr. Univ. Michigan Herb. 20: 136. f. 8. 1995. [See Crum, H., 1995d.]
Type: Colombia. "Dpto. Cundinamarca: Mpio. Pacho, carretera Zipaquira-Pacho, 5°06'N 74°06W, 3050 m." *Edgar Linares & Steven Churchill 3740.* Aug 25, 1992. Holotype: MICH; isotype: NY.

Sphagnum laxulum H. Crum, Contr. Univ. Michigan Herb. 20: 136. f. 7. 1995. [See Crum, H., 1995d.]
Type: Brazil. "Minas Gerais: an der Strasse MG-55 zwischen Morro do Pilar und São Sebestão, Ufer des Rio Peixe, 650 m." *J.-P. Frahm 1865.* Jul 31, 1977. Holotype: MICH; isotype: ALTA.

****Sphagnum lescurii*** var. ***inundatum*** Düll, Bryol. Beitr. 8/9: 9. 1992. [See Düll, R., 1992.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).
Note: not in *Index of Mosses, 1990–1992.*

Sphagnum lewisii H. Crum, J. Hattori Bot. Lab. 74: 153. f. 5. 1993. [See Crum, H., 1993b.]
Type: Colombia. "Depto. de Santander, ca. 8 km toward Páramo from Cañaverales, 73°12'W, 6°02'N, . . . 3,100 m alt." *Marko Lewis 88-1446.* Oct 1988. Holotype: MO.

Sphagnum liesneri H. Crum, Bryologist 98: 266. f. 3a–g. 1995. [See Crum, H., 1995a.]
Type: Venezuela. "Bolivar. Río las Ahallas, 17 km E of El Pauji and 64 km W of Santa Elena, 4 km N of highway, ca. 850 m." *R. L. Liesner 19035.* Holotype: MICH, isotype: MO.

Sphagnum magistri H. Crum, J. Hattori Bot. Lab. 77: 243. f. 8. 1994. [See Crum, H., 1994.]
Type: Ecuador. "Morona-Santiago: Gualaceo-Sucúa road, E of pass, above Río Culebritas, on wet roadside cliff, 2870 m." *William C. Steere 27805.* Oct 23, 1984. Holotype: MICH; isotype: NY.

**Sphagnum margaritae* H. Crum, Fragm. Florist. Geobot. 40: 169. f. 3. 1995. [See Crum, H., 1995c.]
*invalid, single element not cited as holotype (Article 37.3, *Tokyo Code*).
Type: U.S.A. "Missouri. St. Genevieve Co.: on base of sandstone cliff, Leo Dry [=Drey] property near Farmington." *Margaret Feigley "4a, 5a"* Oct 26, 1973. Type: MICH.

Sphagnum moronum H. Crum, J. Hattori Bot. Lab. 77: 252. f. 14. 1994. [See Crum, H., 1994.]
Type: Ecuador. "Morona-Santiago: Gualeceo-Sucúa road, E of pass along Río Culebritas, on roadside bank, 2870 m." *William C. Steere 27797.* Oct 23, 1984. Holotype: MICH; isotype: NY.

Sphagnum olafii Flatberg, J. Bryol. 17: 613. f. 1–4. 1993. [See Flatberg, K. I., 1993b.]
Type: Norway. "Svalbard. Spitsbergen, Isfjorden, Bømdalen, W side, 78°12'N, 15°19'E, ca. 20 m a.s.l." *K. I. Flatberg s.n.* Jun 19, 1992. Holotype: TRH; isotypes: ALA, ALTA, H, LE, NICH, TRH. Paratypes cited.

Sphagnum paranense H. Crum, J. Hattori Bot. Lab. 77: 244. f. 9. 1994. [See Crum, H., 1994.]
Type: Brazil. "Paraná: along road between Palmeira and Curitiba, mun. de Porto Amazonas, on wet stream bank." *D. Griffin & D. M. Vital 114.* Jun 20, 1974. Holotype: MICH; isotype: FLAS.

Sphagnum perforatum var. ***rotundifolium*** Warnstorf in Brotherus, Hedwigia 34: 130. 1895.
Correct name: *Sphagnum cribriforme* H. Crum, 1993.
Other use: *Sphagnum cribriforme* H. Crum, 1993.

Sphagnum pluriporosum H. Crum, J. Hattori Bot. Lab. 77: 246. f. 10. 1994. [See Crum, H., 1994.]
Type: Brazil. "Minas Gerais: mun. Conceição do Mato Dentro, on rocky bank along a river, 19°04'S, 43°25'W." *Daniel M. Vital 7578.* Jul 32, 1977. Holotype: MICH. Other indicated distribution: Brazil (Santa Catarina).

Sphagnum pungifolium Li Xing-jiang, Acta Bot. Yunnan. 15: 257. pl. 1. 1993. [See Li Xing-Jiang, 1993.]
Type: China. "In palude alpina et in paludibus regionis inferioris. In Piceae et Rhododendron, 3,100–3,200 m alt. . . . Pianma . . ., Gaoligong Shan . . ., Bi-Jiang Xian . . ., Yunnan." *Mu Zang 5817.* Jul 2, 1978. Holotype: HKAS. Paratypes cited.

Sphagnum reclinatum H. Crum, Contr. Univ. Michigan Herb. 20: 132. f. 3–4. 1995. [See Crum, H., 1995d.]
Type: Venezuela. "Amazonas: Dpto. Río Negro, just outside Cañón Grande, along trail ca. 1.5–2 hours walk S of Neblina base camp to Río Agua Blanca, ca. 0°50'N, 66°10'W." *William R. Buck 12751.* Feb 1985. Holotype: MICH; isotype: NY.

Sphagnum rubiginosum Flatberg, Lindbergia 18: 61. 1993. [See Flatberg, K. I., 1993a.]
Type: Norway. "Sør-Trøndelag. Trondheim, Våttåsen, NR 69,22 (UTM-reference), 180 m." *K. I. Flatberg 20-89.* Oct 1, 1989. Holotype: TRH; isotypes: ALTA, H, NICH, NY, UBC, TRH. Other indicated distribution: Canada (British Columbia), U.S.A. (Alaska, Washington).

Sphagnum santanderense H. Crum, J. Hattori Bot. Lab. 74: 148. f. 3. 1993. [See Crum, H., 1993b.]
Type: Colombia. "Dept. Santander, ca. 8 km toward Páramo La Rusia from Cañaverales, 73°12'W, 6°02'N, . . . ca. 2,100 m alt." *Marko Lewis 88-1440.* Oct 1988. Holotype: MO.

Sphagnum septatoporosum H. Crum, J. Hattori Bot. Lab. 77: 247. f. 11. 1994. [See Crum, H., 1994.]
Type: Brazil. "Minas Gerais: ca. 1.5 km NE of Represa de Furnas, mun. Passos, 20°38'S, 46°17'W, in a swampy place." *Daniel M. Vital 7641.* Sep 17, 1977. Holotype: MICH.

Sphagnum sonsonense H. Crum, Bryologist 98: 584. f. 6. 1995. [See Crum, H., 1995b.]
Type: Colombia. "Antioqua [*sic*]. Vereda Manyanaresm, Cerro de La Vieja, Finca La Montquita, NE de Sonsón, ca. 5°45'N, 75°14'W, 2515–3000 m." *S. P. Churchill & J. Betancur 18702.* Holotype: MICH; isotype: NY. Paratype cited.

****Sphagnum steerei*** H. Crum, J. Hattori Bot. Lab. 74: 148. f. 2. 1993. [See Crum, H., 1993b.]
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Sphagnum steerei* Andrus, 1988.
Type: Ecuador. "Prov. Carchi, Páramo de El Angel, ca. 20 km N of El Angel, on old road to Tulcán, in *Espeletia* páramo, 2,630 m alt." *William C. Steere 27577B.* Oct 9, 1984. Holotype: MICH; isotype: NY.
Other use: *Sphagnum curvatulum* var. *steereanum* H. Crum, 1995.

Sphagnum tenerum var. ***virginicum*** H. Crum & L. E. Anderson, Bryologist 97: 282. f. 1–8. 1994. [See Crum, H. & L. E. Anderson, 1994.]
Type: U.S.A. "Virginia. Moist depression, long-leaf pine-hardwood sand ridge, Zuni pine barrens, Balckwater Ecologic Preserve, 4.5 mi. SW of Zuni, Isle of Wight County." *Lewis E. Anderson 25348.* May 21, 1989. Holotype: MICH; isotype: DUKE. Other indicated distribution: Dominican Republic.

Sphagnum triporosum H. Crum, Fragm. Florist. Geobot. 40: 173. f. 6. 1995. [See Crum, H., 1995c.]
Type: Brazil. "Rio de Janeiro. Parque Nacional Itatiaia, Agulhas Negras, waldfreie Höhenkamps, 2300–2800 m." *J.-P. Frahm 1834.* Jul 24, 1977. Holotype: MICH; isotype: herb. Frahm.

Sphagnum tundrae Flatberg, Lindbergia 19: 3. f. 1–3. 1994. [See Flatberg, K. I., 1994.]
Type: Norway. "Svalbard. Spitsbergen, Isfjorden, Endalen, E side, 78°11'N, 15°46'E." *K. I. Flatberg s.n.* Jul 18, 1992. Holotype: TRH; isotypes: ALA, ALTA, H, LE, NICH, NY, TRH. Paratypes cited.

Sphagnum wieboldtii H. Crum, Fragm. Florist. Geobot. 40: 167. f. 1. 1995. [See Crum, H., 1995c.]
Type: U.S.A. "Virginia. Augusta Co.: growing with *Fontinalis*, submersed in a small spring branch, slow, braided stream through *Quercus bicolor* forest, Shenandoah Valley just NE of Lofton, ca. 9 mi SW of Stuart's Draft." *T. F. Wieboldt s.n.* May 22, 1993. Holotype: MICH.

STABLERIA Lindberg ex Braithwaite, 1878.

Stableria ruwenzorense Thériot & Naveau, Bull. Soc. Roy. Bot. Belgique 60: 34. f. 15. 1927.
Other use: *Orthodontium ruwenzorensis* (Thériot & Naveau) O'Shea, 1995.

STEGONIA Venturi, 1883.

Stegonia hyalinotrichum (Cardot & Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 195. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum hyalinotrichum* Cardot & Thériot, 1904.

STEPHANODICTYON Dixon, 1935.

Stephanodictyon angustinerve J. Fröhlich, Rev. Bryol. Lichénol. 31: 92. 1962.
Other use: *Trichostomum finukamactum* Zander, 1993.

Stephanodictyon borneense Dixon, J. Linn. Soc., Bot. 50: 86. pl. 1: f. 14. 1935.
Other use: *Trichostomum borneense* (Dixon) Zander, 1993.

***STEREODON** Mitten, 1859.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).

Stereodon caperatus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 97. 1859.
Other use: *Hondaella caperata* (Mitten) B. C. Tan & Iwatsuki, 1993.

Stereodon frondosus Mitten, J. Proc. Linn. Soc., Bot. 7: 158. 1863.
Other use: *Chryso-hypnum frondosum* (Mitten) W. R. Buck, 1993.

Stereodon pennatulus Mitten ex Dixon, Rec. Bot. Surv. India 6: 66. 1914.

Other use: *Homalia pennatula* (Mitten ex Dixon) He Si & Enroth, 1995.

STEREOHYPNUM (Hampe) Fleischer, 1908.

Stereohypnum patens var. ***kilimandscharicum*** Brotherus, Hedwigia 52: 314. 1912.

Other use: *Mittenothamnium patens* var. *kilimandscharium* (Brotherus) Kis, 1984.

Stereohypnum subpatens (Broth. in Mildbr.,) Brotherus in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 168. 1910.

Other use: *Mittenothamnium subpatens* (Brotherus in Mildbraed) Kis, 1984.

STEREOPHYLLUM Mitten, 1859.

****Stereophyllum acutum*** Herzog, Memoranda Soc. Fauna Fl. Fennica 25: 49. f. 4: g–k. 1950.

*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

Earlier name: *Stereophyllum acutum* Brotherus & Paris, 1911.

Type: Ecuador. "In der Umgegend von Zaruma (Südprovinz) zwischen anderen Moosen." *Espinosa s.n.* 1931. not indicated.

Note: not in *Index Muscorum*.

STRAMINERGON Hedenäs, J. Bryol. 17: 462. 1993. [See Hedenäs, L., 1993.]

Type: *Hypnum stramineum* Dickson ex Bridel, *S. stramineum* (Dickson ex Bridel) Hedenäs, holotype.

Original placement: Amblystegiaceae.

Straminergon stramineum (Dickson ex Bridel) Hedenäs, J. Bryol. 17: 463. 1993. [See Hedenäs, L., 1993.]

Basionym: *Hypnum stramineum* Dickson ex Bridel, 1801.

STREBLOTRICHUM Palisot de Beauvois, 1804.

Streblotrichum propaguliferum Li Xing-jiang & Zhang Man-xiang, Acta Bot. Yunnan. 5: 385. f. 1. 1983.

Other use: *Barbula propagulifera* (Li Xing-jiang & Zhang Man-xiang) Redfearn & B. C. Tan, 1995.

STREPTOCALYPTA C. Müller, 1879.

Streptocalypta pulchriretis (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 96. 1993. [See Zander, R. H., 1993b.]

Basionym: *Weisiopsis pulchriretis* Dixon, 1930 [1929].

SYMBLEPHARIS Montagne, 1837.

****Symblepharis breviseta*** E. B. Bartram, Ann. Bryol. 8: 7. f. 2. 1936.

*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

Earlier name: *Symblepharis breviseta* Wilson, 1857.

Other use: *Symblepharis guizhouensis* B. C. Tan et al., 1994.

Symblepharis guizhouensis B. C. Tan et al., Bryologist 97: 134. 1994. [See Tan, B. C., Qi-Wei Lin, M. R. Crosby & Pan-Cheng Wu, 1994.]

Replaced name: *Symblepharis breviseta* E. B. Bartram, 1936.

Blocking name: *Symblepharis breviseta* Wilson, 1857.

Symblepharis pumila Mitten in J. D. Hooker, Handb. N. Zeal. Fl. 405. 1867.

Other use: *Kiaeria pumila* (Mitten in J. D. Hooker) Ochyra, 1993.

Symblepharis socotrana Mitten, Trans. Roy. Soc. Edinburgh 31: 331. 1888.

Other use: *Weissia artocosana* Zander, 1993.

SYMPHYODON Montagne, 1841.

Symphyodon imbricatifolius (Mitten) Churchill, AAU Rep. 35: 194. 1994. [See Churchill, S. P., 1994.]

Basionym: *Lepidopilum imbricatifolium* Mitten, 1869.

SYNODONTIA (Duby ex Bescherelle) Brotherus, 1901.

Synodontia falcata Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 51(A): 5. 1909.

Other use: *Dicnemon pancheri* var. *falcatum* (Brotherus & Paris) B. H. Allen, 1987.

SYNTRICHIA Bridel, 1801.

Syntrichia sect. ***Aesiotortula*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 264. 1993. [See Zander, R. H., 1993b.]

Type: *Barbula pagorum* Milde, *S. pagorum* (Milde) Amann, holotype.

Syntrichia sect. ***Collotortula*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 264. 1993. [See Zander, R. H., 1993b.]
Type: *Tortula andicola* Montagne, *S. andicola* (Montagne) Ochyra, holotype.

****Syntrichia abruptinervis*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 323. 1993. [See Zander, R. H., 1993b.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Syntrichia aculeata (Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula aculeata* Wilson, 1851.

Syntrichia alpestris (Dixon in Herzog) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula alpestris* Dixon in Herzog, 1935.

Syntrichia amphidiacea (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula amphidiacea* C. Müller, 1874.
Note: valid, error of bibliographic citation of basionym (Article 33.3, *Tokyo Code*); volume, page, and year in error.

Syntrichia amplexa (Lesquereux) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula amplexa* Lesquereux, 1865.

Syntrichia anderssonii (Ångström) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula anderssonii* Ångström, 1872.

Syntrichia anderssonii var. ***fagicola*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula conotricha* var. *fagicola* C. Müller, 1885.

Syntrichia antarctica (Hampe in C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula antarctica* Hampe in C. Müller, 1849.

Syntrichia austro-africana (W. Kramer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula austro-africana* W. Kramer, 1988.

Syntrichia baileyi (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula baileyi* Brotherus, 1891.

Syntrichia bartramii (Steere in Grout) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula bartramii* Steere in Grout, 1939.

Syntrichia bipedicellata (Britton) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula bipedicellata* Britton, 1896.

Syntrichia bogotensis (Hampe) Mitten ex Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula bogotensis* Hampe, 1865.

Syntrichia bolanderi (Lesquereux & T. P. James) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula bolanderi* Lesquereux & T. P. James, 1865.

Syntrichia brachyclada (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula brachyclada* Cardot, 1905.

Syntrichia brandisii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula brandisii* C. Müller, 1878.

Syntrichia brevisetacea (Hampe ex F. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula brevisetacea* Hampe ex F. Müller, 1864.

Syntrichia cainii (H. Crum & L. E. Anderson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]

Basionym: *Tortula cainii* H. Crum & L. E. Anderson, 1958.

Syntrichia campestris (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula campestris* Dusén, 1906.

Syntrichia caninervis var. ***abranchesii*** (Luisier) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula abranchesii* Luisier, 1916.

Syntrichia caninervis var. ***spuria*** (Amann) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 267. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula spuria* Amann, 1916.
Note: homonym of equal priority with *S. caninervis* var. *spuria* (Amman) Zander; see Article 53.6, *Tokyo Code*.

Syntrichia caninervis var. ***spuria*** (Amann) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Syntrichia spuria* Amann, 1918.
Note: homonym of equal priority with *S. caninervis* var. *spuria* (Amann) Zander; see Article 53.6, *Tokyo Code*.

Syntrichia chisosa (Magill, Delgadillo M. & Stark) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula chisosa* Magill, Delgadillo M. & Stark, 1983.

Syntrichia ciliata (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ciliata* Brotherus, 1912.

Syntrichia conferta (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula conferta* E. B. Bartram, 1957.

Syntrichia costesii (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula costesii* Thériot, 1921.

Syntrichia didymodontoides (Brotherus in Drygalski) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula didymodontoides* Brotherus in Drygalski, 1906.

Syntrichia epilosa (Brotherus ex Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula epilosa* Brotherus ex Dusén, 1906.

Syntrichia epilosa var. ***pilifera*** (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula epilosa* var. *pilifera* Thériot, 1926.

Syntrichia filaris (C. Müller in Neumayer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula filaris* C. Müller in Neumayer, 1890.

Syntrichia flagellaris (W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula flagellaris* W. P. Schimper, 1836.

Syntrichia flagellaris var. ***densiretis*** (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula flagellaris* var. *densiretis* Thériot, 1917.

Syntrichia fontana (C. Müller in Neumayer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula fontana* C. Müller in Neumayer, 1890.

Syntrichia fuscoviridis (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula fuscoviridis* Cardot, 1906.

Syntrichia geheebiaeopsis (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula geheebiaeopsis* C. Müller, 1883.

Syntrichia gemmascens (Chen Pan-chieh) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon gemmascens* Chen Pan-chieh, 1941.

Syntrichia gemmascens var. ***hopeiensis*** (Chen Pan-chieh) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon gemmascens* var. *hopeiensis* Chen Pan-chieh, 1941.

Syntrichia glacialis (Kunze ex C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula glacialis* Kunze ex C. Müller, 1849.

Syntrichia gromschii (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula gromschii* Thériot, 1935.

Syntrichia jaffuelii (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula jaffuelii* Thériot, 1923.

Syntrichia lacerifolia (R. S. Williams) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula lacerifolia* R. S. Williams, 1916.

Syntrichia leucostega (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula leucostega* C. Müller, 1849.

Syntrichia leucostega var. ***trachyneura*** (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula trachyneura* Dixon, 1920.

Syntrichia limensis (R. S. Williams) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula limensis* R. S. Williams, 1915.

Syntrichia linguifolia (Herzog) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula linguifolia* Herzog, 1916.

Syntrichia longimucronata (Li Xing-jiang) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula longimucronata* Li Xing-jiang, 1981.

Syntrichia magellanica (Montagne in C. Gay) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula magellanica* Montagne in C. Gay, 1850.

Syntrichia mollis (Bruch & W. P. Schimper ex C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula mollis* Bruch & W. P. Schimper ex C. Müller, 1849.

Syntrichia obtusissima (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula obtusissima* C. Müller, 1849.

Syntrichia papillosa var. ***chilensis*** (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula papillosa* var. *chilensis* Thériot, 1921.

Syntrichia percarnosa (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula percarnosa* C. Müller, 1879.

Syntrichia phaea (W. J. Hooker & Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum phaeum* W. J. Hooker & Wilson, 1854.

Syntrichia pichinchensis (Taylor) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula pichinchensis* Taylor, 1847.

Syntrichia princeps var. ***brachycarpa*** (De Notaris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]

Basionym: *Tortula princeps* var. *brachycarpa* De Notaris, 1869.

Syntrichia princeps var. ***echinata*** (Schiffner) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula echinata* Schiffner, 1915.

Syntrichia prostrata (Montagne) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula prostrata* Montagne, 1845.
Note: the citation for this combination in *Index Muscorum*, "Herz., Rev. Bryol. Lich. 29: 197. 1961," is invalid; Herzog did not cite the basionym (Article 33.2, *Tokyo Code*).

Syntrichia pseudodesertorum (J. Fröhlich) Agnew & Vondráček, Feddes Repert. 86: 402. 1975. [See Agnew & Vondráček, 1975.]
Basionym: *Tortula pseudodesertorum* J. Fröhlich, 1964.
Note: not in *Index of Mosses, 1963–1989*.

Syntrichia pseudorobusta (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula pseudorobusta* Dusén, 1906.

Syntrichia pygmaea (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula pygmaea* Dusén, 1907.

Syntrichia ramosissima (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ramosissima* Thériot, 1926.

Syntrichia reflexa Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Tortula reflexa* Li Xing-jiang, 1981.
Blocking name: *Tortula reflexa* Bridel, 1806.
Note: new name, based on adoption of earlier epithet (Article 58.3, *Tokyo Code*).

Syntrichia robusta (W. J. Hooker & Greville) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 269. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula robusta* W. J. Hooker & Greville, 1824.

Syntrichia robusta var. ***recurva*** (Lightowlers) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula robusta* var. *recurva* Lightowlers, 1984.

Syntrichia rubella (W. J. Hooker & Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula rubella* W. J. Hooker & Wilson, 1859.

Syntrichia rubra (Mitten in J. D. Hooker) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula rubra* Mitten in J. D. Hooker, 1867.

Syntrichia rubra var. ***subantarctica*** (Sainsbury) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula subantarctica* Sainsbury, 1950.

Syntrichia ruralis var. ***gigantea*** (Lesquereux) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula ruralis* var. *gigantea* Lesquereux, 1868.

Syntrichia ruralis var. ***gracilis*** (C. E. O. Jensen) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ruralis* var. *gracilis* C. E. O. Jensen, 1898.

Syntrichia ruralis var. ***spiralis*** (Herzog) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ruralis* var. *spiralis* Herzog, 1916.

Syntrichia ruralis var. ***submamillosa*** (W. Kramer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ruralis* var. *submamillosa* W. Kramer, 1980.

Syntrichia ruralis var. ***subpapillosissima*** (Bizot & Pierrot in Bizot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ruralis* var. *subpapillosissma* Bizot & Pierrot in Bizot, 1973.

Syntrichia ruralis var. ***substereidosa*** (W. Kramer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 337. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula ruralis* var. *substereidosa* W. Kramer, 1980.

Syntrichia saxicola (Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula saxicola* Cardot, 1905 [Oct].

Syntrichia scabrella (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula scabrella* Dusén, 1907.

Syntrichia scabrinervis (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula scabrinervis* C. Müller, 1849.

Syntrichia schnyderi (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula schnyderi* C. Müller, 1882.

Syntrichia serrata (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula serrata* Dixon, 1923.

Syntrichia serripungens (Lorentz & C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula serripungens* Lorentz & C. Müller, 1879.

Syntrichia serripungens var. ***excesa*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula serripungens* var. *exesa* C. Müller, 1879.

Syntrichia socialis (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula socialis* Dusén, 1907.

Syntrichia spuria Amann, Fl. Mouss. Suisse 2: 119. pl. 4: f. 6. 1918.
Other use: *Syntrichia caninervis* var. *spuria* (Amann) Zander, 1993.

Syntrichia subaristata (Bruch & W. P. Schimper ex C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula subaristata* Bruch & W. P. Schimper ex C. Müller, 1849.

Syntrichia subpapillosa (Cardot & Brotherus) Matteri, J. Hattori Bot. Lab. 75: 39. 1994. [See Matteri, C. M., 1994.]
Basionym: *Tortula subpapillosa* Cardot & Brotherus, 1923.

****Syntrichia virescens*** var. ***bizotiana*** (W. Kramer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).
Basionym: *Tortula virescens* subsp. *bizotiana* W. Kramer, 1988.
Correct name: *Syntrichia virescens* var. *minor* (Bizot) Ochyra, 1992.

Syntrichia virescens var. ***iranica*** (W. Kramer) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula virescens* var. *iranica* W. Kramer, 1980.

Syntrichia viridula (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 270. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula viridula* C. Müller, 1897.

SYRRHOPODON Schwägrichen, 1824.

Syrrhopodon subgen. ***Brachybolbos*** Tixier ex W. D. Reese, J. Hattori Bot. Lab. 73: 252. 1993. [See Reese, W. D., 1993c.]
Type: *Syrrhopodon tjibodensis* Fleischer, holotype.

Syrrhopodon africanus subsp. ***graminicola*** (R. S. Williams) W. D. Reese, Bryologist 98: 141. 1995. [See Reese, W. D., 1995.]
Basionym: *Syrrhopodon graminicola* R. S. Williams, 1920.

Syrrhopodon africanus subsp. ***mandrakensis*** (Tixier) W. D. Reese, Bryologist 98: 141. 1995. [See Reese, W. D., 1995.]
Basionym: *Calymperopsis mandrakensis* Tixier, 1992.

Syrrhopodon autotomaius W. D. Reese, Bryologist 96: 145. f. 1–10. 1993. [See Reese, W. D., 1993b.]
Type: Honduras. "Olancho: Sierra de Algalta; La Chorrera, Río Lara below Montana [*sic*] Babilonia, 15 km NNW of Catacamas, 14°59'N, 85°56'W, 1100–1800 m; on tree trunk." *Allen 12599.* May 30, 1992. Holotype: MO; isotypes: LAF, NY, TEFH. Paratype cited.

Syrrhopodon crenulatus (Tixier) W. D. Reese, Bryologist 98: 141. 1995. [See Reese, W. D., 1995.]
Basionym: *Calymperopsis crenulata* Tixier, 1967 [1968].

Syrrhopodon graminicola R. S. Williams, Bull. Torrey Bot. Club 47: 379. pl. 16: f. 14. 1920.
Other use: *Syrrhopodon africanus* subsp. *graminicola* (R. S. Williams) W. D. Reese, 1995.

Syrrhopodon lanceolatus (Hampe) W. D. Reese in B. H. Allen, Monogr. Syst. Bot. Missouri Bot. Gard. 49: 215. 1994. [See Allen, B., 1994a.]
Basionym: *Calymperes lanceolatum* Hampe, 1879.

Syrrhopodon langbianensis (Tixier) W. D. Reese, J. Hattori Bot. Lab. 73: 252. 1993. [See Reese, W. D., 1993c.]
Basionym: *Calymperopsis langbianensis* Tixier, 1967 [1968].

Syrrhopodon mahensis var. ***levis*** Orbán, Fragm. Florist. Geobot. 40: 285. f. 1: b. 1995. [See Orbán, S., 1995.]
Type: Seychelles. "Mahé Island, mossy elfin forest with rock boulders on the ridge near Trois Frères Cross, at 640–695 m alt." *S. Orbán 9320/AF.* Aug 10, 1993. Holotype: EGR; isotypes: H, LAF. Paratypes cited.

Syrrhopodon mahensis var. ***palmarum*** Orbán, Fragm. Florist. Geobot. 40: 285. f. 1: c. 1995. [See Orbán, S., 1995.]
Type: Seychelles. "Praslin Island, Vallée de Mai, palm forest on the N side of the road, along the tributaries of Cascade River, at 150–180 m." *S. Orbán 9358/S.* Sep 1, 1993. Holotype: CGR; isotypes: H, LAF. Paratypes cited.

Syrrhopodon perdusenii W. D. Reese, Bryologist 97: 416. 1994. [See Reese, W. D., 1994b.]
Replaced name: *Calymperes subdisciforme* C. Müller ex Bescherelle, 1895.
Blocking name: *Syrrhopodon subdisciformis* Dusén, 1896.

Syrrhopodon prolifer var. ***scaber*** (Mitten) W. D. Reese, Fl. Neotrop. 58: 13. 1993. [See Reese, W. D., 1993a.]
Basionym: *Syrrhopodon scaber* Mitten, 1869.

Syrrhopodon prolifer var. ***seychellarum*** Orbán, Fragm. Florist. Geobot. 40: 286. f. 1: d–e. 1995. [See Orbán, S., 1995.]
Type: Seychelles. "Mahé Island, NW ridge of New Savy summit N of USAF satellite tracking station. Evergreen bush on open rocks at 520 m." *S. Orbán 9332/L.* Aug 15, 1993. Holotype: EGR; isotypes: BM, H, LAF, MO. Paratype cited.

Syrrhopodon scaber Mitten, J. Linn. Soc., Bot. 12: 119. 1869.
Other use: *Syrrhopodon prolifer* var. *scaber* (Mitten) W. D. Reese, 1993.

Syrrhopodon tixieri W. D. Reese, Bryologist 98: 141. 1995. [See Reese, W. D., 1995.]
Replaced name: *Calymperopsis elimbatus* Tixier, 1992.
Blocking name: *Syrrhopodon elimbatus* Dixon, 1924.

Syrrhopodon virgulicola W. D. Reese, Bryologist 97: 419. f. 9–14. 1994. [See Reese, W. D., 1994b.]
Type: Cameroon. "Etome in ramulis." *P. Dusén s.n.* Jan 1892. Holotype: S.

***SYSTEGIUM** W. P. Schimper, 1860.
*illegitimate, type of earlier name included (Article 52.1, *Tokyo Code*).

Systegium abbreviatum Thwaites & Mitten, J. Linn. Soc., Bot. 13: 299. 1873.
Other use: *Weissia abbreviata* (Thwaites & Mitten) Zander, 1993.

Systegium lindigii Hampe, Ann. Sci. Nat. Bot., sér. 5, 3: 337. 1865.
Other use: *Trichostomum lindigii* (Hampe) Zander, 1993.

Systegium unguiculatum Mitten, J. Linn. Soc., Bot. 22: 304. 1886.
Other use: *Trichostomum unguiculatum* (Mitten) Zander, 1993.

TAXIPHYLLUM Fleischer, 1923.

Taxiphyllum laxalare W. R. Buck, Trop. Bryol. 8: 216. 1993. [See Buck, W. R., 1993.]
Type: Zaïre. "Prov. Kivu: Kahuzi-Biega National Park, BRYOTROP locality 118, Tshivanga Park Station 30 km W of Nukavu, 2,200 m." *Frey & Kürschner 6544A*. Holotype: NY; isotype: herb. Frey.

TERRESTRIA Peterson in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 171. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Type: *Leucobryum incurvifolium* C. Müller, *T. incurvifolia* (C. Müller) Peterson in A. J. Sharp, H. Crum & Eckel.
Original placement: Leucobryaceae.

Terrestria incurvifolia (C. Müller) Peterson in A. J. Sharp, H. Crum & Eckel, Mem. New York Bot. Gard. 69: 172. 1994. [See Sharp, A. J., H. Crum & P. M. Eckel (eds.), 1994.]
Basionym: *Leucobryum incurvifolium* C. Müller, 1897.

TETRACOSCINODON R. Brown ter, 1897.

Tetracoscinodon irroratus (Mitten in J. D. Hooker) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 107. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia irrorata* Mitten in J. D. Hooker, 1867.

***THAMNIUM** W. P. Schimper in B.S.G., 1852.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

Thamnium kurzii Kindberg, Hedwigia 41: 246. 1902.
Other use: *Curvicladium kurzii* (Kindberg) Enroth, 1993.

Thamnium malgachum Cardot in Grandidier, Hist. Phys. Madagascar, Mousses 39: 382. 1915.
Other use: *Thamnobryum malgachum* (Cardot in Grandidier) O'Shea, 1995.

THAMNOBRYUM Nieuwland, 1917.

Thamnobryum ceylonense (Fleischer) Enroth, Trop. Bryol. 9: 23. 1994. [See Enroth, J., 1994a.]
Basionym: *Porothamnium ceylonense* Fleischer, 1908.

Thamnobryum fasciculatum (Swartz ex Hedwig) Sastre-de Jesús in Sastre-de Jesús & W. R. Buck, Caribbean J. Sci. 29: 232. 1993. [See Sastre-de Jesús, I. & W. R. Buck, 1993.]
Basionym: *Hypnum fasciculatum* Swartz ex Hedwig, 1801.

Thamnobryum malgachum (Cardot in Grandidier) O'Shea, Trop. Bryol. 10: 95. 1995. [See O'Shea, B., 1995.]
Basionym: *Thamnium malgachum* Cardot in Grandidier, 1915.

THUIDIUM Bruch & W. P. Schimper in B.S.G., 1852.

Thuidium campanulatum Mitten, J. Linn. Soc., Bot. 12: 574. 1869.
Other use: *Cyrto-hypnum campanulatum* (Mitten) Churchill, 1994.

Thuidium ciliatum Mitten, J. Linn. Soc., Bot. 12: 576. 1869.
Other use: *Cyrto-hypnum ciliatum* (Mitten) Churchill & Linares C., 1995.

Thuidium cylindraceum Mitten, J. Linn. Soc., Bot. 12: 574. 1869.
Other use: *Cyrto-hypnum cylindraceum* (Mitten) Churchill, 1994.

Thuidium espinosae Herzog, Beih. Bot. Centralbl. 61B: 589. f. 16g. 1942.

Other use: *Cyrto-hypnum espinosae* (Herzog) Churchill, 1994.

Thuidium hattorii Touw, J. Hattori Bot. Lab. 74: 194. f. 1. 1993. [See Touw, A., 1993b.]
Type: Papua New Guinea. "Morobe Prov.: Sangkwep logging area NE of Lae, 270 m." *Touw 14682*. Mar 13, 1975. Holotype: L; isotypes: H, NICH.
Other indicated distribution: Borneo, Moluccas (Seram), New Guinea (Irian Jaya), Philippines (Luzon, Panay), Sulawesi.

Thuidium intermedium Mitten, J. Linn. Soc., Bot. 12: 573. 1869.
Replaced name: *Hypnum intermedium* Mitten, 1851.
Blocking name: *Hypnum intermedium* (Bridel) Weber & D. Mohr, 1807.
Other use: *Cyrto-hypnum intermedium* (Mitten) Churchill, 1994.

Thuidium neocaledonicum Brotherus in Zahlbruckner, Kryptog. Exsicc. 22: 2200. 1914. [See Zahlbruckner, A., 1914.]
Note: not in *Index Muscorum*.

Thuidium watanabei Touw, J. Hattori Bot. Lab. 74: 200. f. 3. 1993. [See Touw, A., 1993b.]
Type: Papua New Guinea. "Morobe District [Morobe Prov.]: Kaindi, . . . 2,060 m." *L. J. Brass 29555*. May 13, 1959. Holotype: L; isotypes: FH, US.
Other indicated distribution: Moluccas (Seram).

TIMMIELLA (De Notaris) Limpricht in Rabenhorst, 1888.

Timmiella acaulon (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 70. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum acaulon* C. Müller, 1879.

TISSERANTIELLA Potier de la Varde, 1941.

Tisserantiella minutissima (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia minutissima* Mitten, 1869.

Tisserantiella pulchella (Thériot & Hilpert) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]
Basionym: *Macroglossum pulchellum* Thériot & Hilpert, 1933.

TOLOXIS W. R. Buck, Bryologist 97: 436. 1994. [See Buck, W. R., 1994c.]
Replaced name: *Loxotis* W. R. Buck, 1994.
Blocking name: *Loxotis* R. Brown ex Bentham, 1835.

Toloxis borchgrevinkii (Kiaer ex C. Müller) W. R. Buck, Bryologist 97: 436. 1994. [See Buck, W. R., 1994c.]
Basionym: *Papillaria borchgrevinkii* Kiaer ex C. Müller, 1890.

Toloxis imponderosa (Taylor) W. R. Buck, Bryologist 97: 436. 1994. [See Buck, W. R., 1994c.]
Basionym: *Leskea imponderosa* Taylor, 1846.

Toloxis semitorta (C. Müller) W. R. Buck, Bryologist 97: 436. 1994. [See Buck, W. R., 1994c.]
Basionym: *Neckera semitorta* C. Müller, 1851.

TORTELLA (Lindberg) Limpricht in Rabenhorst, 1888, conserved name.

Tortella cryptocarpa (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Astomum cryptocarpum* Brotherus, 1900.

Tortella eckendorffii (Potier de la Varde) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hymenostomum eckendorfii* Potier de la Varde, 1939.

Tortella fruchartii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum fruchartii* C. Müller, 1888.

Tortella goniospora (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula goniospora* C. Müller, 1898.

Tortella lilliputana (C. Müller ex G. Roth) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum lilliputanum* C. Müller ex G. Roth, 1911.

Tortella linearis (Swartz ex Weber & D. Mohr) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula linearis* Swartz ex Weber & D. Mohr, 1803.

Tortella nitida var. ***irrigata*** (H. Winter) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 327. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum nitidum* var. *irrigatum* H. Winter, 1914.
Note: valid, error of bibliographic citation of basionym (Article 33.3, *Tokyo Code*); page 82 rather than 97 cited.

Tortella somaliae (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila somaliae* C. Müller, 1876.

Tortella syrrhopodontoides Dixon, J. Bot. 76: 228. pl. 614: f. 8. 1938.
Other use: *Pseudosymblepharis syrrhopodontoides* (Dixon) Zander, 1993.

Tortella walkeri (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 104. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila walkeri* Brotherus, 1899.

TORTULA Hedwig, 1801, conserved name.
Note: emended conservation proposed; see Taxon 44: 623. 1995.

Tortula sect. ***Hyophilopsis*** (Cardot & Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 233. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophilopsis* Cardot & Dixon, 1911.

Tortula sect. ***Schizophascum*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 232. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum* sect. *Schizophascum* C. Müller, 1888.

Tortula abranchesii Luisier, Bróteria, Sér. Bôt. 14: 115. f. 3. 1916, "*abranchesi*."
Other use: *Syntrichia caninervis* var. *abranchesii* (Luisier) Zander, 1993.

Tortula acaulon (Withering) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum acaulon* Withering, 1801.

Tortula acaulon var. ***affinis*** (Nees & Hornschuch) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum affine* Nees & Hornschuch, 1823.

Tortula acaulon var. ***arcuata*** (Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum cuspidatum* var. *arcuatum* Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, 1991.

Tortula acaulon var. ***curviseta*** (Dickson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum curvisetum* Dickson, 1801.

Tortula acaulon var. ***diaphora*** (I. Hagen) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum acaulon* var. *diaphorum* I. Hagen, 1929.

Tortula acaulon var. ***elata*** (Bridel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum elatum* Bridel, 1801.

Tortula acaulon var. ***intertexta*** (Bridel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum intertextum* Bridel, 1819 [1818].

Tortula acaulon var. ***marginata*** (Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum cuspidatum* var. *marginatum* Herrnstadt & Heyn in Herrnstadt, Heyn & Crosby, 1991.

Tortula acaulon var. ***mitriformis*** (Limpricht) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993, "*mitraeformis*." [See Zander, R. H., 1993b.]
Basionym: *Phascum cuspidatum* var. *mitriforme* Limpricht, 1885.

Tortula acaulon var. ***papillosa*** (Lindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum papillosum* Lindberg, 1864.

Tortula acaulon var. ***pilifera*** (Hedwig) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum piliferum* Hedwig, 1801.

Tortula acaulon var. ***retortifolia*** (J. Guerra & Ros in J. Guerra et al.) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum cuspidatum* var. *retortifolium* J. Guerra & Ros in J. Guerra et al., 1991.

Tortula acaulon var. ***schreberiana*** (Dickson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 378. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum schreberianum* Dickson, 1801.

Tortula acletoi H. Robinson, Phytologia 21: 390. f. 5–7. 1971.
Other use: *Hennediella acletoi* (H. Robinson) Zander, 1993.

Tortula alpestris Dixon in Herzog, Repert. Spec. Nov. Regni Veg. 38: 103. 1935.
Other use: *Syntrichia alpestris* (Dixon in Herzog) Zander, 1993.

Tortula altipes (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon altipes* Brotherus, 1931.

Tortula areolata (Knight) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Gymnostomum areolatum* Knight, 1875.

Tortula argentinica (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon argentinicus* Brotherus, 1918.

****Tortula atherodes*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***affinis*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***arcuata*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***curviseta*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***diaphora*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***elata*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***intertexta*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***marginata*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

****Tortula atherodes*** var. ***mitraeformis*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

Tortula atherodes* var. ***papillosa* Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

Tortula atherodes* var. ***pilifera* Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

Tortula atherodes* var. ***retortifolia* Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

Tortula atherodes* var. ***schreberiana* Zander, Bull. Buffalo Soc. Nat. Sci. 32: 222. 1993. [See Zander, R. H., 1993b.]
*invalid, not accepted by author, page 378 (Article 34.1a, *Tokyo Code*).

Tortula atrovirens var. ***leucodonta*** (Corbière) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula atrovirens* var. *leucodonta* Corbière, 1889.

Tortula austro-africana W. Kramer, J. Hattori Bot. Lab. 65: 92. 1988.
Other use: *Syntrichia austro-africana* (W. Kramer) Zander, 1993.

Tortula baileyi Brotherus, Oefers. Förh. Finska Vetensk.-Soc. 33: 97. 1891.
Other use: *Syntrichia baileyi* (Brotherus) Zander, 1993.

Tortula bartramii Steere in Grout, Moss Fl. N. Amer. 1: 241. pl. 115: B. 1939.
Other use: *Syntrichia bartramii* (Steere in Grout) Zander, 1993.

Tortula bipedicellata Britton, Bull. Torrey Bot. Club 23: 481. 1896.
Other use: *Syntrichia bipedicellata* (Britton) Zander, 1993.

Tortula bogosica (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon bogosicus* C. Müller, 1872.

Tortula brachychaete Dusén, Bot. Not. 1905: 300. 1905.
Other use: *Willia brachychaete* (Dusén) Zander, 1993.

Tortula brachyclada Cardot, Bull. Herb. Boissier, sér. 2, 5: 1002. 1905.
Other use: *Syntrichia brachyclada* (Cardot) Zander, 1993.

Tortula brevis H. Whitehouse & Newton, J. Bryol. 15: 83. f. 1–4, 7: b–d. 1988. [See Whitehouse, H. L. K. & M. E. Newton, 1988.]
Type: United Kingdom. "On sloping ground near badger set and rabbit warren in woodland on north bank of Bob's Alley stream, Matching, Esses, v.-c. 19 52/525127." *C. D. Preston, M. P. Whitehouse & H. L. K. Whitehouse s.n.* May 13, 1978.
Holotype: CGE. Other indicated distribution: Australia (Victoria), Ireland, U.S.A. (California). Paratypes cited.
Note: incorrectly placed under "*Hennediella*" by Zander (1993).

Tortula cainii H. Crum & L. E. Anderson, J. Elisha Mitchell Sci. Soc. 74: 35. f. 10–17. 1958.
Other use: *Syntrichia cainii* (H. Crum & L. E. Anderson) Zander, 1993.

Tortula campestris Dusén, Ark. Bot. 6(8): 25. pl. 10: f. 1–6. 1906.
Other use: *Syntrichia campestris* (Dusén) Zander, 1993.

Tortula campylocarpa Taylor, London J. Bot. 7: 187. 1848.
Other use: *Didymodon taylorii* Zander, 1993.

Tortula capillaris (Dixon ex Chen Pan-chieh) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon capillaris* Dixon ex Chen Pan-chieh, 1941.

Tortula carinata Gillies ex Greville, Edinburgh J. Nat. Geogr. Sci. 2: 2. 1830.
Other use: *Pseudocrossidium carinatum* (Gillies ex Greville) Zander, 1993.

Tortula cernua var. ***xanthopus*** (Kindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon cernuus* var. *xanthopus* Kindberg, 1890.

Tortula chimborazensis Mitten, J. Linn. Soc., Bot. 12: 163. 1869.
Other use: *Bryoerythrophyllum chimborazense* (Mitten) Zander, 1993.

Tortula chisosa Magill, Delgadillo M. & Stark, Ann. Missouri Bot. Gard. 70: 200. f. 1–9. 1983.
Other use: *Syntrichia chisosa* (Magill, Delgadillo M. & Stark) Zander, 1993.

Tortula chungtienia Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Desmatodon yuennanensis* Brotherus, 1929.
Blocking name: *Tortula yuennanensis* Chen Pan-chieh, 1941.

Tortula ciliata Brotherus, Bot. Jahrb. Syst. 49: 175. 1912.
Other use: *Syntrichia ciliata* (Brotherus) Zander, 1993.

Tortula conferta E. B. Bartram, Bryologist 60: 140. 1957.
Other use: *Syntrichia conferta* (E. B. Bartram) Zander, 1993.

Tortula costesii Thériot, Revista Chilena Hist. Nat. 25: 298. 1921.
Other use: *Syntrichia costesii* (Thériot) Zander, 1993.

Tortula cuneifolia var. ***blissii*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. pl. 85: f. 21–25. 1993. [See Zander, R. H., 1993b.]
Type: Canada. "Northwest Territories, Cornwallis Island, Resolute Bay area." *L. C. Bliss s.n.* 1977. Holotype: BUF; isotype: ALTA.

****Tortula deciduidentata*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
*invalid, basionym invalid (Article 33.2, *Tokyo Code*).

Tortula densa (Velenovsky) Frahm, Fragm. Florist. Geobot. 39: 393. 1994. [See Frahm, J.-P., 1994c.]
Basionym: *Tortula ruralis* var. *densa* Velenovsky, 1897.

Tortula didymodontoides Brotherus in Drygalski, Deutsche Südpolar-Exped. 1901–1903 8: 86. pl. 7: f. 3. 1906.
Other use: *Syntrichia didymodontoides* (Brotherus in Drygalski) Zander, 1993.

Tortula domingensis Thériot, Trav. Bryol. 2: 12. f. 4. 1944.
Other use: *Brachymenium domingense* (Thériot) Zander, 1993.

Tortula echinata Schiffner, Oesterr. Bot. Z. 65: 4. f. 1–6. 1915.
Other use: *Syntrichia princeps* var. *echinata* (Schiffner) Zander, 1993.

Tortula eckeliae Zander, Bryologist 88: 354. f. 7–12. 1985 [1986].
Other use: *Hennediella heteroloma* var. *eckeliae* (Zander) Zander, 1993.

Tortula entosthodontacea (Cardot & Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophilopsis entosthodontacea* Cardot & Dixon, 1911.

Tortula epilosa Brotherus ex Dusén, Ark. Bot. 6(8): 25. pl. 9: f. 11–14. 1906.
Other use: *Syntrichia epilosa* (Brotherus ex Dusén) Zander, 1993.

Tortula epilosa var. ***pilifera*** Thériot, Revista Chilena Hist. Nat. 30: 343. 1926.
Other use: *Syntrichia epilosa* var. *pilifera* (Thériot) Zander, 1993.

Tortula eucalyptrata Lindberg, Bot. Not. 1886: 100. 1886.
Other use: *Tortula euryphylla* var. *eucalyptrata* (Lindberg) Zander, 1993.

Tortula euryphylla Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993, superfluous, earlier name included (Article 52.3, *Tokyo Code*. [See Zander, R. H., 1993b.]
Earlier name: *Tortula eucalyptrata* Lindberg, 1886.
Replaced name: *Dicranum latifolium* Hedwig, 1801.
Blocking name: *Tortula latifolia* Bruch ex C. J. Hartman, 1832.

Tortula euryphylla subsp. ***brevifolia*** (Kindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula latifolia* subsp. *brevifolia* Kindberg, 1883.

Tortula euryphylla var. ***eucalyptrata*** (Lindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula eucalyptrata* Lindberg, 1886.

Tortula euryphylla var. ***flavescens*** (Bridel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Dicranum latifolium* var. *flavescens* Bridel, 1806.

Tortula euryphylla var. ***spelaea*** (Amann) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon spelaeus* Amann, 1919.

Tortula euryphylla var. ***subobliqua*** (Lindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon latifolius* var. *subobliquus* Lindberg, 1867.

Tortula flagellaris var. ***densiretis*** Thériot, Recueil Publ. Soc. Havraise Études Diverses 1917: 7. 1917.
Other use: *Syntrichia flagellaris* var. *densiretis* (Thériot) Zander, 1993.

Tortula flavinervis var. ***obscura*** Dixon, Bot. Not. 1937: 75. 1937.
Other use: *Pseudocrossidium crinitum* var. *obscurum* (Dixon) Macmillan & Fife in Fife, 1995.

Tortula fuscinervia Mitten, J. Linn. Soc., Bot. 12: 154. 1869.
Other use: *Bryoerythrophyllum fuscinervium* (Mitten) Zander, 1993.

Tortula fuscoviridis Cardot, Bull. Herb. Boissier, sér. 2, 6: 6. 1906.
Other use: *Syntrichia fuscoviridis* (Cardot) Zander, 1993.

Tortula gromschii Thériot, Rev. Bryol. Lichénol. 7: 173. f. 4. 1935.
Other use: *Syntrichia gromschii* (Thériot) Zander, 1993.

Tortula heteroloma Cardot, Rev. Bryol. 37: 127. 1910.
Other use: *Hennediella heteroloma* (Cardot) Zander, 1993.

Tortula humida Mitten, J. Linn. Soc., Bot. 12: 162. 1869.
Other use: *Didymodon humidus* (Mitten) Zander, 1993.

Tortula jaffuelii Thériot, Revista Chilena Hist. Nat. 27: 9. pl. 2: f. 1. 1923, "*jaffueli.*"
Other use: *Syntrichia jaffuelii* (Thériot) Zander, 1993.

Tortula kabir-khanii (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon kabir-khanii* Brotherus, 1931.

Tortula khasiana Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 29. 1859.
Other use: *Pseudosymblepharis khasiana* (Mitten) Zander, 1993.

Tortula lacerifolia R. S. Williams, Bull. Torrey Bot. Club 43: 326. pl. 18: f. 1–6. 1916.
Other use: *Syntrichia lacerifolia* (R. S. Williams) Zander, 1993.

Tortula lanceola Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Encalypta lanceolata* Hedwig, 1801.
Blocking name: *Tortula lanceolata* (Hedwig) Palisot de Beauvois, 1805.

Tortula lanceola var. ***albidens*** (Corbière) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *albidens* Corbière, 1895.

Tortula lanceola var. ***angustata*** (Bruch & W. P. Schimper in B.S.G.) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Anacalypta lanceolata* var. *angustata* Bruch & W. P. Schimper in B.S.G., 1843.

Tortula lanceola var. ***lejolisii*** (Corbière) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *lejolisii* Corbière, 1889.

Tortula lanceola var. ***leucodonta*** (W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 223. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *leucodonta* W. P. Schimper, 1876.

Tortula lanceola var. ***macrophylla*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *macrophylla* Warnstorf, 1916.

Tortula lanceola var. ***microphylla*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *microphylla* Warnstorf, 1916.

Tortula lanceola var. ***mucronata*** (Amann) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *mucronata* Amann, 1920.

Tortula lanceola var. ***ovalifolia*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *ovalifolia* Warnstorf, 1916.

Tortula lanceola var. ***papillosa*** (Corbière) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia lanceolata* var. *papillosa* Corbière, 1889.

Tortula lanceola var. ***rigidior*** (Schwägrichen) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Encalypta lanceolata* var. *rigidior* Schwägrichen, 1811.

Tortula latifolia subsp. ***brevifolia*** Kindberg, Bih. Kongl. Svenska Vetensk.-Akad. Handl. 7(9): 135. 1883.
Other use: *Tortula euryphylla* subsp. *brevifolia* (Kindberg) Zander, 1993.

Tortula laureri var. ***setschwanica*** (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon setschwanicus* Brotherus, 1929.

Tortula ligularis Mitten, J. Linn. Soc., Bot. 12: 156. 1869.
Other use: *Bryoerythrophyllum ligulare* (Mitten) Zander, 1993.

Tortula limensis R. S. Williams, Bull. Torrey Bot. Club 42: 398. pl. 24: f. 12–21. 1915.
Other use: *Syntrichia limensis* (R. S. Williams) Zander, 1993.

Tortula linguifolia Herzog, Biblioth. Bot. 87: 49. 1916.
Other use: *Syntrichia linguifolia* (Herzog) Zander, 1993.

Tortula longimucronata Li Xing-jiang, Acta Bot. Yunnan. 3: 107. f. 4. 1981.
Other use: *Syntrichia longimucronata* (Li Xing-jiang) Zander, 1993.

Tortula magellanica Montagne in C. Gay, Fl. Chil. 7: 145. 1850.
Other use: *Syntrichia magellanica* (Montagne in C. Gay) Zander, 1993.

Tortula maritima (R. Brown ter) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Dendia maritima* R. Brown ter, 1898.

Tortula mendozensis Mitten, J. Linn. Soc., Bot. 12: 154. 1869.
Other use: *Pseudocrossidium mendozense* (Mitten) Zander, 1993.

Tortula minor (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Beccaria minor* C. Müller, 1872.

Tortula minor var. ***elatior*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Beccaria elatior* C. Müller, 1872.

Tortula minuscula R. S. Williams, Bull. Torrey Bot. Club 42: 399. pl. 24: f. 1–11. 1915.
Other use: *Didymodon minusculus* (R. S. Williams) Zander, 1993.

Tortula modica Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Gymnostomum intermedium* Turner, 1804.
Blocking name: *Tortula intermedia* (Bridel) De Notaris, 1838.

Tortula modica var. ***corsa*** (Fleischer & Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *corsa* Fleischer & Warnstorf, 1896.

Tortula modica var. ***gymnandra*** (Schiffner) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *gymnandra* Schiffner, 1897.

Tortula modica var. ***gymnogyna*** (Schiffner) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *gymnogyna* Schiffner, 1898.

Tortula modica var. ***revoluta*** (Schiffner) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *revoluta* Schiffner, 1897.

Tortula modica var. ***stenocarpa*** (Velenovsky) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *stenocarpa* Velenovsky, 1897.

Tortula modica var. ***tenuis*** (Venturi) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia intermedia* var. *tenuis* Venturi, 1899.

Tortula montana Mitten, J. Linn. Soc., Bot. 12: 156. 1869.
Other use: *Rhamphidium montanus* (Mitten) Zander, 1993.

Tortula montana var. ***paludosa*** Röll, Hedwigia 56: 164. 1915. [See Röll, J., 1915.]
Type: Not indicated
Note: not in *Index Muscorum*.

Tortula mucronifera W. Frey, Kürschner & Ros in W. Frey et al., Nova Hedwigia 59: 346. f. 1–12. 1994. [See Frey, W., H. Kürschner, R. M. Ros, J. Guerra & M. J. Cano, 1994.]
Type: Saudia Arabia: "Central Saudi Arabia: Tuwayq, Wadi al-Birkh (al Kharj–al Aflaj road), 600 m, on soil, Tuwayq limestone." *W. Frey & H. Kürschner 84-78*. Mar 21, 1984. Holotype: B; isotypes: MUB, herb. Frey, herb. Kürschner. Other indicated distribution: Jordan, Oman.

Tortula nevadensis (Cardot & Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia nevadensis* Cardot & Thériot, 1904.

Tortula pallida (Lindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia pallida* Lindberg, 1864.

Tortula pallida var. ***longicuspis*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia pallida* var. *longicuspis* Warnstorf, 1916.

Tortula papillosa var. ***chilensis*** Thériot, Revista Chilena Hist. Nat. 25: 297. pl. 25: f. 2. 1921.
Other use: *Syntrichia papillosa* var. *chilensis* (Thériot) Zander, 1993.

Tortula petriei Brotherus ex Beckett, Trans. & Proc. New Zealand Inst. 29: 441. pl. 25. 1896 [1897].
Other use: *Hennediella arenae* var. *petriei* (Brotherus ex Beckett) Zander, 1993.

Tortula pichinchensis Taylor, London J. Bot. 6: 333. 1847.
Other use: *Syntrichia pichinchensis* (Taylor) Zander, 1993.

Tortula porteri (T. P. James in Austin) Brotherus, 1902.
Note: redundant combination in Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993.

Tortula princeps var. ***brachycarpa*** De Notaris, Atti Reale Univ. Genova 1: 538. 1869.
Other use: *Syntrichia princeps* var. *brachycarpa* (De Notaris) Zander, 1993.

Tortula prostrata Montagne, Ann. Sci. Nat. Bot., sér. 3, 4: 107. 1845.
Other use: *Syntrichia prostrata* (Montagne) Zander, 1993.

Tortula protobryoides Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Phascum bryoides* Dickson, 1801.
Blocking name: *Tortula bryoides* W. J. Hooker in Drummond, 1828.

Tortula protobryoides var. ***brevifolia*** (De Notaris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum bryoides* var. *brevifolium* De Notaris, 1869.

Tortula protobryoides var. ***thornhillii*** (Wilson) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum bryoides* var. *thornhillii* Wilson, 1855.

Tortula pruinosa Mitten, J. Linn. Soc., Bot. 12: 152. 1869.
Other use: *Didymodon pruinosus* (Mitten) Zander, 1993.

Tortula pseudodesertorum J. Fröhlich, Ann. Naturhist. Mus. Wien 67: 155. 1964.
Other use: *Syntrichia pseudodesertorum* (J. Fröhlich) Agnew & Vondráček, 1975.

Tortula pseudorobusta Dusén, Ark. Bot. 6(8): 19. pl. 7: f. 7–111. 1906.
Other use: *Syntrichia pseudorobusta* (Dusén) Zander, 1993.

Tortula pygmaea Dusén, Ark. Bot. 6(10): 8. pl. 1: f. 13–17. 1907.
Other use: *Syntrichia pygmaea* (Dusén) Zander, 1993.

Tortula raddei Brotherus, Bot. Centralbl. 34: 26. 1888.
Other use: *Microbryum raddei* (Brotherus) Zander, 1993.

Tortula ramosissima Thériot, Revista Chilena Hist. Nat. 33: 136. 1926.
Other use: *Syntrichia ramosissima* (Thériot) Zander, 1993.

Tortula randii (G. G. Kennedy) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia randii* G. G. Kennedy, 1899.

Tortula raucopapillosa (Li Xing-jiang) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon raucopapillosum* Li Xing-jiang, 1981.

****Tortula reflexa*** Li Xing-jiang, Acta Bot. Yunnan. 3: 109. f. 6. 1981.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Tortula reflexa* Bridel, 1806.
Other use: *Syntrichia reflexa* Zander, 1993.

Tortula rhodonia Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Desmatodon wilczekii* Meylan, 1919.
Blocking name: *Tortula wilczekii* Meylan, 1936.

Tortula robusta W. J. Hooker & Greville, Edinburgh J. Sci. 1: 299. f. 12. 1824.
Other use: *Syntrichia robusta* (W. J. Hooker & Greville) Zander, 1993.

Tortula robusta var. ***recurva*** Lightowlers, Brit. Antarct. Surv. Bull. 64: 64. f. 2: a–b. 1984. [See Lightowlers, P. J., 1984.]
Type: South Georgia. "Alt. c. 300 m. At head of valley running south-west from Husvik, Stromness Bay." *S. W. Green 3114.* Mar 18 1961. Holotype: AAS; isotypes: BA, BM, MEl, NY, TNS. Paratypes cited.
Other use: *Syntrichia robusta* var. *recurva* (Lightowlers) Zander, 1993.
Note: not in *Index of Mosses, 1963–1989.*

Tortula rubella W. J. Hooker & Wilson, Fl. Tasman. 2: 176. pl. 172: f. 10. 1859.
Other use: *Syntrichia rubella* (W. J. Hooker & Wilson) Zander, 1993.

Tortula rubra Mitten in J. D. Hooker, Handb. N. Zeal. Fl. 419. 1867.
Other use: *Syntrichia rubra* (Mitten in J. D. Hooker) Zander, 1993.

Tortula rubra var. ***subantarctica*** (Sainsbury) Lightowlers, J. Bryol. 13: 373. 1985. [See Lightowlers, P. J., 1985.]
Basionym: *Tortula subantarctica* Sainsbury, 1950.
Note: incorrectly cited as invalid in *Index of Mosses, 1963–1989*.

Tortula ruralis var. ***densa*** Velenovsky, Rozpr. České Akad. Věd, Tř. 2, Vědy Mat. Přír. 6(6): 166. 1897.
Other use: *Tortula densa* (Velenovsky) Frahm, 1994.

Tortula ruralis var. ***gracilis*** C. E. O. Jensen, Meddel. Grønland 15: 409. 1898.
Other use: *Syntrichia ruralis* var. *gracilis* (C. E. O. Jensen) Zander, 1993.

Tortula ruralis var. ***spiralis*** Herzog, Biblioth. Bot. 87: 49. 1916.
Other use: *Syntrichia ruralis* var. *spiralis* (Herzog) Zander, 1993.

Tortula ruralis var. ***submamillosa*** W. Kramer, Bryophyt. Biblioth. 21: 127. 1980.
Other use: *Syntrichia ruralis* var. *submamillosa* (W. Kramer) Zander, 1993.

Tortula ruralis var. ***subpapillosissma*** Bizot & Pierrot in Bizot, Acta Bot. Acad. Sci. Hung. 18: 11. f. 3: 1–2. 1973.
Other use: *Syntrichia ruralis* var. *subpapillosissima* (Bizot & Pierrot in Bizot) Zander, 1993.

Tortula ruralis var. ***substereidosa*** W. Kramer, Bryophyt. Biblioth. 21: 125. 1980.
Other use: *Syntrichia ruralis* var. *substereidosa* (W. Kramer) Zander, 1993.

Tortula sainsburyana Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Pottia stevensii* R. Brown ter, 1894.
Blocking name: *Tortula stevensii* R. Brown ter, 1898.

Tortula saxicola Cardot, Bull. Herb. Boissier, sér. 2, 5: 1002. 1905 [Oct].
Other use: *Syntrichia saxicola* (Cardot) Zander, 1993.

Tortula scabrella Dusén, Ark. Bot. 6(10): 4. pl. 2: f. 1–4. 1907.
Other use: *Syntrichia scabrella* (Dusén) Zander, 1993.

Tortula serrata Dixon, New Zealand Inst. Bull. 3(3): 146. pl. 8: f. 3. 1923.
Other use: *Syntrichia serrata* (Dixon) Zander, 1993.
Note: *Index Muscorum*'s listing of this name as illegitimate is incorrect.

Tortula serrulata W. J. Hooker & Greville, Edinburgh J. Sci. 1: 299. f. 12. 1824.
Other use: *Hennediella serrulata* (W. J. Hooker & Greville) Zander, 1993.

Tortula socialis Dusén, Ark. Bot. 6(10): 6. pl. 2: f. 6–12a. 1907.
Other use: *Syntrichia socialis* (Dusén) Zander, 1993.

Tortula solomensis (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon solomensis* Brotherus, 1929.

Tortula splachnoides (Hornschuch) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum splachnoides* Hornschuch, 1820.

Tortula spuria Amann, Bull. Murith. Soc. Valais. Sci. Nat. 39: 351. 1916.
Other use: *Syntrichia caninervis* var. *spuria* (Amann) Zander, 1993.

Tortula subantarctica Sainsbury, Svensk Bot. Tidskr. 44: 72. f. 1: a–f. 1950.
Other use: *Syntrichia rubra* var. *subantarctica* (Sainsbury) Zander, 1993, *Tortula rubra* var. *subantarctica* (Sainsbury) Lightowlers, 1985.

Tortula subpapillosa Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 24. pl. 1: f. 4: a–d. 1923.
Other use: *Syntrichia subpapillosa* (Cardot & Brotherus) Matteri, 1994.

Tortula thomsonii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993, "*thompsonii*." [See Zander, R. H., 1993b.]
Basionym: *Trichostomum thomsonii* C. Müller, 1864.

Tortula tonkinensis (Bescherelle) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon tonkinensis* Bescherelle, 1894.

Tortula trachyneura Dixon, Trans. Roy. Soc. South Africa 8: 195. f. 7. 1920.
Other use: *Syntrichia leucostega* var. *trachyneura* (Dixon) Zander, 1993.

Tortula truncata var. ***brevirostris*** (Lisa) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum truncatum* var. *brevirostre* Lisa, 1837.

Tortula truncata var. ***illyrica*** (Latzel) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia illyrica* Latzel, 1931.

Tortula truncata var. ***littoralis*** (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia littoralis* Mitten, 1871.

Tortula truncata var. ***minutissima*** (Warnstorf) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia truncata* var. *minutissima* Warnstorf, 1916.

Tortula ucrainica (Lazarenko) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Basionym: *Desmatodon ucrainicus* Lazarenko, 1926.

Tortula unguiculata var. ***robusta*** Lindberg in C. J. Hartman, Handb. Skand. Fl. (ed. 10) 2: 91. 1871. [See Hartman, C. J., 1871.]
Type: Not indicated.
Note: not in *Index Muscorum*.

Tortula virescens subsp. ***bizotiana*** W. Kramer, J. Hattori Bot. Lab. 65: 123. 1988. [See Kramer, W., 1988.]
Replaced name: *Tortula papillosissima* var. *minor* Bizot, 1954.
Other use: *Syntrichia virescens* var. *bizotiana* (W. Kramer) Zander, 1993.
Note: cited as invalid in *Index of Mosses, 1963–1989*.

Tortula virescens var. ***iranica*** W. Kramer, Bryophyt. Biblioth. 21: 101. 1980.
Other use: *Syntrichia virescens* var. *iranica* (W. Kramer) Zander, 1993.

Tortula willisiana Zander, Bull. Buffalo Soc. Nat. Sci. 32: 226. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Phascum drummondii* Wilson, 1848.
Blocking name: *Tortula drummondii* Mitten, 1859.

Tortula willisiana var. ***obscura*** (J. H. Willis) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia drummondii* var. *obscura* J. H. Willis, 1954.

Tortula wilsonii (W. J. Hooker) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gymnostomum wilsonii* W. J. Hooker, 1829.

Tortula wilsonii var. ***asperula*** (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia asperula* Mitten, 1871.

Tortula wilsonii var. ***crinita*** (Wilson ex Bruch & W. P. Schimper in B.S.G.) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia crinita* Wilson ex Bruch & W. P. Schimper in B.S.G., 1843.

Tortula wilsonii var. ***mucronifolia*** (Bruch in F. A. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Basionym: *Entosthymenium mucronifolium* Bruch in F. A. Müller, 1829.

Tortula zoddae Zander, Bull. Buffalo Soc. Nat. Sci. 32: 227. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Pottia cuneifolia* Solms ex W. P. Schimper, 1876.
Blocking name: *Tortula cuneifolia* (Dickson) Turner, 1804.

TRACHYCARPIDIUM Brotherus, 1901.
Trachycarpidium lonchophyllum (G. Roth) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 213. 1993. [See Zander, R. H., 1993b.]
Basionym: *Astomum lonchophyllum* G. Roth, 1911.

TRACHYCLADIELLA (Fleischer) Menzel in Menzel & Schultze-Motel, J. Hattori Bot. Lab. 75: 74. 1994. [See Menzel, M. & W. Schultze-Motel, 1994.]
Basionym: *Floribundaria* sect. *Trachycladiella* Fleischer, 1908.
Trachycladiella aurea (Mitten) Menzel in Menzel & Schultze-Motel, J. Hattori Bot. Lab. 75: 75. 1994. [See Menzel, M. & W. Schultze-Motel, 1994.]
Basionym: *Meteorium aureum* Mitten, 1859.
Trachycladiella sparsa (Mitten) Menzel in Menzel & Schultze-Motel, J. Hattori Bot. Lab. 75: 78. 1994. [See Menzel, M. & W. Schultze-Motel, 1994.]
Basionym: *Meteorium sparsum* Mitten, 1859.

TRACHYXIPHIUM W. R. Buck, 1987.
Trachyxiphium glanduliferum (Hampe) Churchill & Linares C., Bibliot. José Jerónimo Triana 12: 261. 1995. [See Churchill, S. P. & E. L. Linares C., 1995a.]
Basionym: *Hookeria glandulifera* Hampe, 1863.

TRICHODONTIUM (Dixon) Fife, Bryologist 98: 315. 1995. [See Fife, A. J., 1995.]
Basionym: *Dicranum* subgen. *Trichodontium* Dixon, 1923.
Trichodontium falcatum (R. Brown ter) Fife, Bryologist 98: 316. 1995. [See Fife, A. J., 1995.]
Basionym: *Trichostomum falcatum* R. Brown ter, 1897.

TRICHOSTELEUM Mitten, 1868.
Trichosteleum asselii Tixier in Bizot & Tixier, Ann. Univ. Abidjan, C 22B: 48. f. 1. 1987. [See Bizot, M. & P. Tixier, 1987.]
Type: Ivory Coast. "Abadjin, bois pourri en forêt, 30 m." *Assel 647*. 15 Jun 1969. Holotype: PC.
Note: not in *Index of Mosses, 1963–1989*.
Trichosteleum pervilleanum (C. Müller ex Geheeb) W. R. Buck, Trop. Bryol. 8: 211. 1993. [See Buck, W. R., 1993.]
Basionym: *Hypnum pervilleanum* C. Müller ex Geheeb, 1881.

TRICHOSTOMUM Bruch, 1829, conserved name.
Trichostomum subgen. ***Crispuliformes*** (Kindberg) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 90. 1993. [See Zander, R. H., 1993b.]
Basionym: *Didymodon* sect. *Crispuliformes* Kindberg, 1897.
Trichostomum subgen. ***Laminanchium*** Zander, Bull. Buffalo Soc. Nat. Sci. 32: 90. 1993. [See Zander, R. H., 1993b.]
Type: *Calymperes tortelloides* Brotherus & Dixon, *T. tortelloides* (Brotherus & Dixon) Zander.
Trichostomum subgen. ***Stenotrichum*** A. Chevalier, Fl. Gén. Env. Paris 2: 44. 1827.
Other use: *Racomitrium* sect. *Stenotrichum* (A. Chevalier) Bednarek-Ochyra, 1995.
Trichostomum aaronis Lorentz, Abh. Königl. Akad. Wiss. Berlin 1867: 29. pl. 5: f. 1–9; 6: f. 10–21. 1868.
Other use: *Didymodon aaronis* (Lorentz) J. Guerra in J. Guerra & Ros, 1987.
Trichostomum abyssinicum (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 91. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia abyssinica* Thériot, 1928.
Trichostomum acaulon C. Müller, Linnaea 42: 320. 1879.
Other use: *Timmiella acaulon* (C. Müller) Zander, 1993.
Trichostomum acutiusculum (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 91. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila acutiuscula* Brotherus, 1894.
Trichostomum andinum Sullivant, U.S. Expl. Exped., Musci 5. pl. 2: a. 1859.
Other use: *Erythrophyllastrum andinum* (Sullivant) Zander, 1993.

Trichostomum arboreum (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 91. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia arborea* Mitten, 1869.

Trichostomum atrocaule (K. Saito) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia atrocaulis* K. Saito, 1975.

Trichostomum austrocrispum (Beckett) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum austrocrispum* Beckett, 1893 [1894].

Trichostomum austrocrispum var. ***longifolium*** (R. Brown ter) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phascum longifolium* R. Brown ter, 1894.

Trichostomum borneense (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Stephanodictyon borneense* Dixon, 1935.

Trichostomum brachydontium var. ***robustum*** (Renauld & Cardot) During, Lindbergia 7: 121. 1981 [1982]. [See During, H. J., 1981 [1982].]
Basionym: *Trichostomum mutabile* var. *robustum* Renauld & Cardot, 1902.
Note: not in *Index of Mosses, 1963–1989*.

Trichostomum brittonianum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Hymenostomum flavescens* Britton in N. L. Britton & Millspaugh, 1920.
Blocking name: *Trichostomum flavescens* Dixon, 1936.

Trichostomum castaneum (H. Crum & Steere) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hymenostomum castaneum* H. Crum & Steere, 1958.

Trichostomum cavernarum Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 283. 1926.
Other use: *Pseudosymblepharis cavernarum* (Brotherus) Zander, 1993.

Trichostomum challaense Brotherus, Biblioth. Bot. 87: 30. 1916.
Other use: *Didymodon challaense* (Brotherus) Zander, 1993.

Trichostomum circinnatulum Brotherus in Voeltzkow, Reise Ostafr., Syst. Arbeit. 3: 54. pl. 8: f. 4. 1908.
Other use: *Pseudosymblepharis circinnatula* (Brotherus in Voeltzkow) Zander, 1993.

****Trichostomum cirrhatum*** Hampe, Icon. Musc. 28. 1844.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Trichostomum cirratum* Smith, 1804.
Correct name: *Trichostomum eckelianum* Zander, 1993.

Trichostomum contractum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Gymnostomum longirostre* Griffith, 1842.
Blocking name: *Trichostomum longirostre* (Weber & D. Mohr) C. J. Hartman, 1849.

Trichostomum criotum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Hyophila perannulata* Renauld & Cardot, 1896.
Blocking name: *Trichostomum perannulatum* Dixon & Potier de la Varde, 1928.

Trichostomum deciduaefolium (K. Saito) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia deciduaefolia* K. Saito, 1975.

Trichostomum eckelianum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Trichostomum cirrhatum* Hampe, 1844.
Blocking name: *Trichostomum cirratum* Smith, 1804.

Trichostomum ehrenbergii var. ***denticuspis*** Brotherus, Bot. Jahrb. Syst. 30: 261. 1901. [See Brotherus, V. F., 1901.]
Type: Tanzania. "Oberes Kondeland: Umuamba, an ständig von Wasser überrieselten Abhängen, 700 m." *W. Goetze 1318*. Herbarium not indicated.
Note: not in *Index Muscorum*.

Trichostomum exulatum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Phascum vernicosum* C. Müller ex G. Roth, 1911.
Blocking name: *Trichostomum vernicosum* Renauld & Cardot, 1897.

Trichostomum falcatum R. Brown ter, Trans. & Proc. New Zealand Inst. 29: 480. pl. 39: f. 1. 1897.
Other use: *Trichodontium falcatum* (R. Brown ter) Fife, 1995.

****Trichostomum ferrugineum*** Herzog, Biblioth. Bot. 87: 31. 1916.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Trichostomum ferrugineum* Bridel, 1818 [1819].
Other use: *Didymodon herzogii* Zander, 1993.

Trichostomum finukamactum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Stephanodictyon angustinerve* J. Fröhlich, 1962.
Blocking name: *Trichostomum angustinerve* Cardot, 1910.

Trichostomum hattorianum B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 393. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Replaced name: *Trichostomum involutum* Brotherus, 1923.
Blocking name: *Trichostomum involutum* Sullivant, 1861.

Trichostomum imperfectum C. Müller, Linnaea 42: 214. 1879.
Other use: *Didymodon imperfectus* (C. Müller) Zander, 1993.

Trichostomum imshaugii (Vitt) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula imshaugii* Vitt, 1971 [1972].

Trichostomum incertum (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia incerta* Mitten, 1879.

****Trichostomum involutum*** Brotherus, Akad. Wiss. Wien, Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 1, 131: 210. 1923.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Trichostomum involutum* Sullivant, 1861.
Correct name: *Trichostomum hattorianum* B. C. Tan & Iwatsuki, 1993.

Trichostomum ligulaefolium (Brotherus & Paris) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila ligulaefolia* Brotherus & Paris, 1904.

Trichostomum lindigii (Hampe) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Systegium lindigii* Hampe, 1865.

Trichostomum luteolum Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 178. 1872.
Other use: *Pleurochaete squarrosa* var. *luteola* (Bescherelle) Zander, 1993.

Trichostomum marginatum H. Robinson, Phytologia 21: 389. f. 1–4. 1971.
Other use: *Didymodon marginatus* (H. Robinson) Zander, 1993.

Trichostomum melanostomum (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia melanostoma* Mitten, 1869.

Trichostomum mitteneanum Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Weissia umbrosa* Mitten, 1869.
Blocking name: *Trichostomum umbrosum* C. Müller, 1879.

Trichostomum monspeliense W. P. Schimper, Syn. Musc. Eur. (ed. 2) 175. 1876.
Other use: *Weissia triumphans* var. *monspeliensis* (W. P. Schimper) Zander, 1993.

Trichostomum mutabile var. ***robustum*** Renauld & Cardot, Bull. Herb. Boissier, sér. 2, 2: 436. pl. 7: f. 20. 1902.
Other use: *Trichostomum brachydontium* var. *robustum* (Renauld & Cardot) During, 1981 [1982].

Trichostomum nitidum var. ***irrigatum*** H. Winter, Hedwigia 55: 97. 1914.
Other use: *Tortella nitida* var. *irrigata* (H. Winter) Zander, 1993.

****Trichostomum obtusifolium*** Hampe, Bot. Zeitung (Berlin) 28: 49. 1870.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Trichostomum obtusifolium* Palisot de Beauvois, 1805.
Other use: *Didymodon hampei* Zander, 1993.

****Trichostomum obtusifolium*** Brotherus, Akad. Wiss. Wien, Sitzungsber., Math.-Naturwiss. Kl., Abt. 1, 131: 210. 1923.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Trichostomum obtusifolium* Palisot de Beauvois, 1805.
Other use: *Barbula chenia* Redfearn & B. C. Tan, 1995.

Trichostomum ovatifolium Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Hymenostomum anomalum* Brotherus in Herzog, 1916.
Blocking name: *Trichostomum anomalum* (Bruch & W. P. Schimper) W. P. Schimper, 1856.

Trichostomum pallidens (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pseudosymblepharis pallidens* Dixon, 1937.

Trichostomum perligulatum (Flowers ex H. Crum) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia perligulata* Flowers ex H. Crum, 1973.

Trichostomum perlongifolium J. Fröhlich, Rev. Bryol. Lichénol. 31: 92. 1962 [1963].
Other use: *Pseudosymblepharis perlongifolia* (J. Fröhlich) Zander, 1993.

Trichostomum perviride Brotherus, Dansk Bot. Ark. 2(9): 3. 1918.
Other use: *Weissia veviridis* Zander, 1993.

Trichostomum phaeum W. J. Hooker & Wilson, Fl. Nov.-Zel. 2: 72. pl. 84: f. 5. 1854.
Other use: *Syntrichia phaea* (W. J. Hooker & Wilson) Zander, 1993.

Trichostomum planifolium (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia planifolia* Dixon, 1928.

Trichostomum pulicare (Bescherelle) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hymenostomum pulicare* Bescherelle, 1880.

Trichostomum recurvifolium (Taylor) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Bryum recurvifolium* Taylor, 1843.

Trichostomum sinaloense (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia sinaloensis* E. B. Bartram, 1925.

Trichostomum sinochenii Redfearn & B. C. Tan, Trop. Bryol. 10: 68. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Replaced name: *Hyophila barbuloides* Brotherus, 1929.
Blocking name: *Trichostomum barbuloides* Bridel, 1806.

Trichostomum soulae (C. Müller in Renauld & Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Ptychomitrium soulae* C. Müller in Renauld & Cardot, 1895.

Trichostomum soulae var. ***corticicola*** (Renauld & Cardot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Barbula corticicola* Renauld & Cardot, 1897.

Trichostomum subangustifolium (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila subangustifolia* Thériot, 1931.

Trichostomum svihlae E. B. Bartram, Rev. Bryol. Lichénol. 23: 245. 1954.
Other use: *Tuerckheimia svihlae* (E. B. Bartram) Zander, 1993.

Trichostomum tenuirostre var. ***gemmiparum*** (W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Didymodon cylindricus* var. *gemmiparus* W. P. Schimper, 1876.

Trichostomum termitarum (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Weissia termitarum* C. Müller, 1900.

Trichostomum thomsonii C. Müller, Bot. Zeitung (Berlin) 22: 359. 1864.
Other use: *Tortula thomsonii* (C. Müller) Zander, 1993.
Note: *Index Muscorum* and other works incorrectly cite "1854" as the date of publication.

Trichostomum tisserantii (Potier de la Varde) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phasconica tisserantii* Potier de la Varde, 1935.

Trichostomum tortelloides (Brotherus & Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Calymperes tortelloides* Brotherus & Dixon, 1910.

Trichostomum unguiculatum (Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Systegium unguiculatum* Mitten, 1886.

Trichostomum urceolare (Hampe) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila urceolaris* Hampe, 1870.

Trichostomum verrucosum Brotherus & Paris, Oefers. Förh. Finska Vetensk.-Soc. 51 A (17): 12. 1909.
Other use: *Pseudosymblepharis verrucosa* (Brotherus & Paris) Zander, 1993.

Trichostomum williamsii Zander, Bull. Buffalo Soc. Nat. Sci. 32: 92. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Astomum chilense* R. S. Williams, 1915.
Blocking name: *Trichostomum chilense* Montagne, 1845.

Trichostomum zanderi Redfearn & B. C. Tan, Trop. Bryol. 10: 68. 1995. [See Redfearn, P. L., Jr. & B. C. Tan, 1995.]
Replaced name: *Hyophila aristatula* Brotherus, 1923.
Blocking name: *Trichostomum aristatulum* Brotherus, 1916.

TUERCKHEIMIA Brotherus, 1910.

Tuerckheimia robusta (Dixon) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 94. 1993. [See Zander, R. H., 1993b.]
Basionym: *Merceyopsis robusta* Dixon, 1930.

Tuerckheimia svihlae (E. B. Bartram) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 94. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum svihlae* E. B. Bartram, 1954.

*ULEA C. Müller, 1897.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

Ulea nitida Thériot in Felippone, Rev. Bryol., n.s. 2: 214. f. 5. 1930.
Other use: *Uleastrum nitidum* (Thériot in Felippone) Zander, 1993.

Ulea palmicola C. Müller, Hedwigia 36: 102. 1897.
Other use: *Uleastrum palmicola* (C. Müller) Zander, 1993.

ULEASTRUM W. R. Buck, 1985.

Uleastrum nitidum (Thériot in Felippone) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]

Basionym: *Ulea nitida* Thériot in Felippone, 1930.

Uleastrum octoblephare (Spruce ex Jaeger) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]
Basionym: *Pottia octoblepharis* Spruce ex Jaeger, 1873.

Uleastrum palmicola (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 277. 1993. [See Zander, R. H., 1993b.]
Basionym: *Ulea palmicola* C. Müller, 1897.

ULEOBRYUM Brotherus, 1906.

Uleobryum occultum (G. Roth) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 218. 1993. [See Zander, R. H., 1993b.]
Basionym: *Aschisma occultum* G. Roth, 1911.

VESICULARIA (C. Müller) C. Müller, 1896.

Vesicularia chlorotica var. ***donghamense*** (Bescherelle) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 393. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Ectropothecium chloroticum* var. *donghamense* Bescherelle, 1887.

WARBURGIELLA C. Müller ex Brotherus, 1900.

Warburgiella aureonitida (E. B. Bartram) H. Akiyama, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 15: 249. 1993. [See Akiyama, H., 1993a.]
Basionym: *Sematophyllum aureonitidum* E. B. Bartram, 1946.

WARNSTORFIA Loeske, 1907.

Warnstorfia exannulata var. ***nigricans*** (Bridel) Ochyra, Fragm. Florist. Geobot. 40: 919. 1995. [See Ochyra, R., 1995.]
Basionym: *Hypnum fluitans* var. *nigricans* Bridel, 1827.

Warnstorfia luipichensis (R. S. Williams) Hedenäs, J. Bryol. 17: 473. 1993. [See Hedenäs, L., 1993.]
Basionym: *Calliergon luipichense* R. S. Williams, 1910.

Warnstorfia sarmentosa (Wahlenberg) Hedenäs, J. Bryol. 17: 470. 1993. [See Hedenäs, L., 1993.]
Basionym: *Hypnum sarmentosum* Wahlenberg, 1812.

***WEBERA** Hedwig, 1801.

*illegitimate, later homonym (Article 53.1, *Tokyo Code*).

Webera cavalieriei Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 21: 270. 1911.
Other use: *Pohlia cavalieri* (Cardot & Thériot) Redfearn & B. C. Tan, 1995.

Webera graciliformis Cardot & Thériot, Bull. Acad. Int. Géogr. Bot. 21: 270. 1911.
Other use: *Pohlia graciliformis* (Cardot & Thériot) Chen Pan-chieh ex Redfearn & B. C. Tan, 1995.

Webera gromieri Thériot, Bull. Mus. Hist. Nat. (Paris) 30: 241. 1924.
Other use: *Pohlia gromieri* (Thériot) Kis, 1984.

Webera kenyae Dixon, J. Bot. 76: 254. 1938.
Other use: *Pohlia kenyae* (Dixon) Kis, 1984.

Webera lacouturei Thériot, Recueil Publ. Soc. Havraise Études Diverses 89: 124. illustration. 1922.
Other use: *Pohlia lacouturei* (Thériot) O'Shea, 1995.

Webera laticuspis Brotherus, Symb. Sin. 4: 51. 1929, "*laticuspes*."
Other use: *Pohlia laticuspis* (Brotherus) Chen Pan-chieh ex Redfearn & B. C. Tan, 1995.

Webera propagulifera Brotherus ex Levier, Nuovo Giorn. Bot. Ital., n. s., 13: 280. 1906.
Other use: *Pohlia propagulifera* (Brotherus ex Levier) Chen Pan-chieh ex Redfearn & B. C. Tan, 1995.

Webera pygmaea Brotherus, Symb. Sin. 4: 52. pl. 1: f. 17. 1929.
Other use: *Pohlia pygmaea* (Brotherus) Chen Pan-chieh ex Redfearn & B. C. Tan, 1995.

Webera tapintzensis Bescherelle, Rev. Bryol. 18: 89. 1891.
Other use: *Pohlia tapintzense* (Bescherelle) Redfearn & B. C. Tan, 1995.

Webera timmioides Brotherus, Symb. Sin. 4: 52. pl. 1: f. 18–19. 1929.
Other use: *Pohlia timmioides* Chen Pan-chieh ex Redfearn & B. C. Tan, 1995.

WEISIOPSIS Brotherus, 1921.

Weisiopsis cucullatifolia (Gao Chien, Jia Xue-yi & Cao Tong) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 193. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hyophila cucullatifolia* Gao Chien, Jia Xue-yi & Cao Tong, 1991.

Weisiopsis involuta Magill, Fl. S. Africa, Bryophyta, Mosses 1: 225. f. 65: 18–27. 1981 [1982].
Other use: *Plaubelia involuta* (Magill) Zander, 1993.

Weisiopsis nigeriana (Egunyomi & Olarinmoye) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 193. 1993. [See Zander, R. H., 1993b.]
Basionym: *Gyroweisia nigeriana* Egunyomi & Olarinmoye, 1978.

Weisiopsis norrisii (Zander) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 193. 1993. [See Zander, R. H., 1993b.]
Basionym: *Scopelophila norrisii* Zander, 1985 [1986].

Weisiopsis pulchriretis Dixon, Trans. Roy. Soc. South Africa 18: 252. f. 4. 1930 [1929].
Other use: *Streptocalypta pulchriretis* (Dixon) Zander, 1993.

WEISSIA Hedwig, 1801.

Weissia subgen. ***Phasconica*** (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phasconica* C. Müller, 1882.

Weissia abbreviata (Thwaites & Mitten) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Systegium abbreviatum* Thwaites & Mitten, 1873.

Weissia abyssinica Thériot, Bull. Mus. Hist. Nat. (Paris) 34: 116. illustration. 1928.
Other use: *Trichostomum abyssinicum* (Thériot) Zander, 1993.

Weissia arborea Mitten, J. Linn. Soc., Bot. 12: 138. 1869.
Other use: *Trichostomum arboreum* (Mitten) Zander, 1993.

Weissia artocosana Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Symblepharis socotrana* Mitten, 1888.
Blocking name: *Weissia socotrana* Mitten, 1888.

Weissia atrocaulis K. Saito, J. Hattori Bot. Lab. 39: 425. f. 23: 1–11. 1975.
Other use: *Trichostomum atrocaule* (K. Saito) Zander, 1993.

Weissia balansae (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phasconica balansae* C. Müller, 1882.

Weissia bizotii Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Kleioweisiopsis involuta* Bizot ex Zander, 1993.
Blocking name: *Weissia involuta* Bridel, 1826.

****Weissia cucullata*** Potier de la Varde, Bull. Mus. Hist. Nat. (Paris), ser. 2, 15: 240. pl. 3. 1943.
*illegitimate, later homonym (Article 53.1, *Tokyo Code*).
Earlier name: *Weissia cucullata* C. Müller, 1858.
Correct name: *Weissia vardei* Bizot in Bizot & Dury, 1978.

Weissia deciduaefolia K. Saito, J. Hattori Bot. Lab. 39: 429. f. 25: 1–8. 1975.
Other use: *Trichostomum deciduaefolium* (K. Saito) Zander, 1993.

Weissia diffidentia Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Phascum recurvirostre* C. Müller, 1888.
Blocking name: *Weissia recurvirostris* Hedwig, 1801.

Weissia glazioui Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993, "*glaziouii*." [See Zander, R. H., 1993b.]
Replaced name: *Hymenostomum striatum* Geheeb & Hampe, 1879.
Blocking name: *Weissia striata* (Hedwig) Schreber ex P. G. Gärtner, B. Meyer & Scherbius, 1804.

Weissia hildebrandtii C. Müller, Linnaea 40: 298. 1876.
Other use: *Hymenostylium hildebrandtii* (C. Müller) Zander, 1993.

Weissia incerta Mitten, Philos. Trans. 168: 389. 1879.
Other use: *Trichostomum incertum* (Mitten) Zander, 1993.

Weissia irrorata Mitten in J. D. Hooker, Handb. N. Zeal. Fl. 404. 1867.
Other use: *Tetracoscinodon irroratus* (Mitten in J. D. Hooker) Zander, 1993.

Weissia lorentzii (C. Müller) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Phasconica lorentzii* C. Müller, 1882.

Weissia melanostoma Mitten, J. Linn. Soc., Bot. 12: 138. 1869.
Other use: *Trichostomum melanostomum* (Mitten) Zander, 1993.

Weissia minutissima Mitten, J. Linn. Soc., Bot. 12: 138. 1869.
Other use: *Tisserantiella minutissima* (Mitten) Zander, 1993.

Weissia navicularis Mitten, J. Linn. Soc., Bot. 12: 139. 1869.
Other use: *Quaesticula navicularis* (Mitten) Zander, 1993.

Weissia neocaledonica (Thériot) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Aschisma neocaledonicum* Thériot, 1910.

Weissia novae-valisiae (Brotherus ex G. Roth) Stone, J. Bryol. 11: 236. 1980. [See Stone, I. G., 1980.]
Basionym: *Astomum novae-valesiae* Brotherus ex G. Roth, 1913.
Note: not in *Index of Mosses, 1963–1989.*

Weissia ovatifolia Kürschner, Nova Hedwigia 60: 499. f. 1–15. 1995. [See Kürschner, H., 1995.]
Type: Jordan. "Verwaltungbezirk Kerak: bei Buseira, 700 m." *W. Frey & H. Kürschner 93-88.* Mar 20, 1993.
Holotype: JE; isotypes: herb. Frey, herb. Kürschner.

Weissia patula (Knight) Fife, Bryologist 98: 316. 1995. [See Fife, A. J., 1995.]
Basionym: *Gymnostomum patulum* Knight, 1875.

Weissia perligulata Flowers ex H. Crum, Bryologist 76: 292. 1973.
Other use: *Trichostomum perligulatum* (Flowers ex H. Crum) Zander, 1993.

Weissia planifolia Dixon, Rev. Bryol., n.s. 1: 179. f. 1. 1928.
Other use: *Trichostomum planifolium* (Dixon) Zander, 1993.

Weissia riograndensis (Brotherus) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Hymenostomum riograndense* Brotherus, 1900.

Weissia sinaloensis E. B. Bartram, Bryologist 28: 65. pl. 8: f. 1–13. 1925.
Other use: *Trichostomum sinaloense* (E. B. Bartram) Zander, 1993.

Weissia sinensi-fugax C. Müller, Nuovo Giorn. Bot. Ital., n. s., 5: 184. 1898.
Other use: *Cynodontium sinensifugax* (C. Müller) Brotherus ex Gao Chien, 1994.

Weissia starkeana Hedwig, Sp. Musc. Frond. 65. 1801, "*starckeana.*"
Other use: *Microbryum starkeanum* (Hedwig) Zander, 1993.

Weissia stricta W. J. Hooker & Wilson, London J. Bot. 3: 540. 1844.
Other use: *Holodontium strictum* (W. J. Hooker & Wilson) Ochyra, 1993.

Weissia triumphans var. ***monspeliensis*** (W. P. Schimper) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Basionym: *Trichostomum monspeliense* W. P. Schimper, 1876.

Weissia umbrosa Mitten, J. Linn. Soc., Bot. 12: 133. 1869.
Other use: *Trichostomum mitteneanum* Zander, 1993.

Weissia vardei Bizot in Bizot & Dury, Norweg. J. Bot. 25: 249. 1978. [See Bizot, M. & M. N. Dury, 1978.]
Replaced name: *Weissia cucullata* Potier de la Varde, 1943.
Blocking name: *Weissia cucullata* C. Müller, 1858.
Note: not in *Index of Mosses, 1963–1989.*

Weissia veviridis Zander, Bull. Buffalo Soc. Nat. Sci. 32: 184. 1993. [See Zander, R. H., 1993b.]
Replaced name: *Trichostomum perviride* Brotherus, 1918.
Blocking name: *Weissia perviridis* Dixon, 1933.

Weissia waymouthii R. Brown ter, Trans. & Proc. New Zealand Inst. 31: 439. pl. 38: f. 3. 1899.
Other use: *Didymodon waymouthii* (R. Brown ter) Zander, 1993.

WIJKIA H. Crum, 1971.

Wijkia comosa (Tixier) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 394. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Acanthocladium comosum* Tixier, 1970 [1971].

Wijkia filifera (Brotherus & Paris ex Tixier) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 394. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Acanthocladium filiferum* Brotherus & Paris ex Tixier, 1970 [1971].

****Wijkia filifera*** var. ***minor*** B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 395. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).

Wijkia flagelliformis (Tixier) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 395. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Acanthocladium flagelliforme* Tixier, 1970 [1971].

Wijkia semitortipila (Fleischer) Lin Shan-hsiung, J. Taiwan Mus. 37(2): 55. 1984. [See Lin, S.-h., 1984.]
Basionym: *Acanthocladium semitortipilum* Fleischer, 1923.
Note: cited as invalid in *Index of Mosses, 1963–1989*. Lin cited "*Hypnum semitortipilum* C. Müll., Abh. Nat. Ver. Bremen 7: 213. 1881" as the basionym, but this name apparently was never published by Müller: it is not on page 213 or nearby pages. However, Lin's citation of *A. semitortipilum*, as "*Acanthocladium semitortipilum* (C. Müll.) Flesich., Laubmfl. Java 4: 1206. 1919" serves to validate the combination.

Wijkia sublepida var. ***denticulata*** (Tixier) B. C. Tan & Iwatsuki, J. Hattori Bot. Lab. 74: 395. 1993. [See Tan, B. C. & Z. Iwatsuki, 1993.]
Basionym: *Acanthocladium sublepidum* var. *denticulatum* Tixier, 1966.

WILLIA C. Müller in Neumayer, 1890.

Willia brachychaete (Dusén) Zander, Bull. Buffalo Soc. Nat. Sci. 32: 236. 1993. [See Zander, R. H., 1993b.]
Basionym: *Tortula brachychaete* Dusén, 1905.

ZYGODON W. J. Hooker & Taylor, 1818.

****Zygodon gemmaceus*** Dixon ex Kis, Mosses South-east Trop. Africa 85. 1985. [See Kis, G., 1985.]
*invalid, orthographic variant (Article 61.1, *Tokyo Code*).
Correct name: *Zygodon microgemmaceus* Dixon, 1938.

****Zygodon viridissimus*** subsp. ***baumgartneri*** Düll, Bryol. Beitr. 8/9: 112. 1992. [See Düll, R., 1992.]
*invalid, basionym not cited (Article 33.2, *Tokyo Code*).
Note: not in *Index of Mosses, 1990–1992*.

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Other use: *Rhachithecium welwitschii* (Duby) Zander, 1993.

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Åberg – Johann Gerhard ("Göran") Åberg, 1868–1940
Aziz – Mohammad Nehal Aziz, 1956–
Banu-Fattah – Khurshida Banu-Fattah, 1943–
Bednarek-Ochyra – Halina Krysfyroi Bednarek-Ochyra, 1959–
Beever – Jessica Eleanor Beever, 1946–
Bélanger – Charles Paulus Bélanger, 1805–1881
Bentham – George Bentham, 1800–1884
Berlese – Antonio Berlese, 1863–1927
Biasuso – Amalia Beatríz Biasuso, 1962–
Britton, N. L. – Nathaniel Lord Britton, 1859–1934
Cano – María Jesús Cano, 1967–
Carrión, J. S. – José Sebastian Carrión
Chevalier, A. – Auguste Jean Baptiste Chevalier, 1873–1956
Dijkstra – S. J. Dijkstra, fl. 1949
Foreau – Georges Foreau, 1882–1967
Garilleti – Ricardo Garilleti, 1963–
Gillies – John Gillies, 1792–1834
Guerra, J. – Juan Guerra, 1952–
He Si – Si He, 1959–
Heyn – Chaia Clara Heyn, 1924–
Hofman, A. – Annelies Hofman, fl. 1995
Hosseus – Carl (Karl) Curt Hosseus, 1878–1950
Hunt, G. E. – George Edward Hunt, 1841–1873
Ignatov – Mikhail (Misha) S. Ignatov, 1956–
Jia Xue-yi – Xue Yi Jia, 1959–
Jiménez, M. N. – María Nieves Jiménez, fl. 1991
Kennedy, G. G. – George Golding Kennedy, 1841–1918
Ketchledge – Edwin Herbert Ketchledge, 1924–
Kis – Gabriella Kis, fl. 1984
Knight – Charles Knight, 1818–1895
Koppe, F. – Fritz Koppe, fl. 1896
Lara, F. – Francisco Lara, 1963–
Levier – Émile Levier, 1839–1911
Lewinsky-Haapasaari – Jette Lewinsky-Haapasaari, 1948–
Lin Qi-wei – Qi-Wei Lin, fl. 1994
Linares C., – Edgar L. Linares C., 1953–
Loitlesberger – Karl Loitlesberger, 1857–1943
Macmillan – Bryony Hope Macmillan, 1933–
Malik, S. – Saddiqa Malik, f. 1993
Marrs-Smith – Gayle Marrs-Smith, fl. 1995
Martínez, J. J. – J. J. Martínez,
Mazimpaka – Vicente Mazimpaka, 1948–
Mies – B. Mies, fl. 1995
Millspaugh – Charles Frederick Millspaugh, 1854–1923
Müller, F. – Ferdinand Heinrich Jacob von Müller, 1825–1896
Muñoz, J. – Jesús Muñoz, 1964–
Nakaike – Toshiyuki Nakaike, 1943–
Ninh – Tran Ninh, fl. 1981
O'Shea – Brian O'Shea, fl. 1995
Pinheiro da Costa – Denise Pinheiro da Costa
Pitard – Joseph Charles Marie Pitard, 1873–1937
Rendle – Alfred Barton Rendle, 1865–1938
Rooy – Jacques van Rooy, 1953–
Ros – Rosa María Ros, fl. 1987–
Salazar Allen – Noris Salazar Allen, 1947–
Shaw, A. J. – Arthur Jonathan Shaw, 1954–
Söderström, L. – Lars Söderström, 1954–
Solms – Hermann Maximilian Carl Ludwig Friedrich zu Solms-Laubach, 1842–1915
Spessard-Schueth – Linda Spessard-Schueth, 1947–
Thiers, B. – Barbara Thiers, 1955–
Unger – Franz (Joseph Andreas Nicolaus) Unger, 1800–1870
Yamaguchi – Tomio Yamaguchi, fl. 1990
Yano – Olga Yano
Zahlbruckner – Alexander Zahlbruckner, 1860–1938
Zomlefer – Wendy B. Zomlefer, 1954–

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AAU Rep. – AAU Reports. BPH: NEW.

Acta Bot. Boreal.-Occid. Sin. – Acta Botanica Boreali-Occidentalia Sinica. BPH/S: 21.L.

Acta Palaeobot. – Acta Palaeobotanica. BPH: 46.27.

Actes Soc. Linn. Bordeaux – Actes de la Société Linnéenne de Bordeaux. BPH: 51.13.

Anal. Draw. Austral. Moss. – Analytical Drawings of Australian Mosses. Mueller, F. J. H. von TL2: 6401.

Ann. Bot. Soc. Zool.-Bot. Fenn. "Vanamo" – Annales Botanici Societatis Zoologicae-Botanicae Fennicae "Vanamo." BPH: 98.25.

Ann. Univ. Abidjan, C – Annales de l'Université d'Abidjan, Série C, Sciences. BPH/S: 74.L.

Arctoa – Arctoa, a Journal of Bryology. BPH: NEW.

Atti Reale Univ. Genova – Atti della R. Università Genova. BPH/S: 109.L.

Aussereur. Laubm. – Die Aussereuropäischen Laubmoose. Roth, G. TL2: 9643.

Bahama Fl. – The Bahama Flora. Britton, N. L. & C. F. Millspaugh TL2: 787.

Bangladesh J. Bot. – Bangladesh Journal of Botany. BPH/S: 115.R.

Ber. Deutsch. Bot. Ges. – Berichte der Deutschen Botanischen Gesellschaft. BPH: 174.15.

Bibliot. José Jerónimo Triana – Biblioteca José Jerónimo Triana. BPH/S: 131.R.

Bol. Fac. Ci. Exact. Fis. Nat. Córdoba – Boletín de la Facultad de Ciencias Exactas, Fisicas y Naturales. BPH/S: 153.L.

Bol. Mus. Paraense Emílio Goeldi, Bot. – Boletim do Museu Paraense Emílio Goeldi, Série Botânica. BPH/S: 148.L.

Bot. Misc. – Botanical Miscellany. BPH: 223.11.

Bothalia – Bothalia. BPH: 226.34.

Brit. Antarct. Surv. Bull. – British Antarctic Survey Bulletin. BPH/S: 182.R*.

Bryobrothera – Bryobrothera. BPH: NEW.

Bull. Bot. Res., Harbin – Bulletin of Botanical Research. BPH/S: 182.L.

Bull. Buffalo Soc. Nat. Sci. – Bulletin of the Buffalo Society of Natural Sciences. BPH: 243.03.

Bull. Jard. Bot. Belg. – Bulletin du Jardin Botanique National de Belgique. BPH/S: 205.L.

Bull. Mens. Soc. Linn. Soc. Bot. Lyon – Bulletin Mensuel de la Société Linnéenne et des Sociétés Botanique de Lyon, d'Anthropologie et de Biologie de Lyon réunies. BPH: 262.19.

Caribbean J. Sci. – Caribbean Journal of Science. BPH: 299.05.

Chenia – Chenia, Contributions to the Cryptogamic Biology. BPH: NEW.

Contr. Univ. Michigan Herb. – Contributions from the University of Michigan Herbarium. BPH: 331.04.

Cronac. Briol. Ital. – Cronaca della Briologia Italiana. De Notaris, G. TL2: NEW.

Cryptog. Fl. Pakistan – Cryptogamic Flora of Pakistan. Nakaike, T. & S. Malik (eds.) TL2: NEW.

Dansk Bot. Ark. – Dansk Botanisk Arkiv. BPH: 338.12.

Edinburgh J. Nat. Geogr. Sci. – Edinburg Journal of Natural and Geographical Science. BPH: 354.30.

Eur. N. Amer. Bryin. – European and N. American Bryineae (Mosses). Kindberg, N. C. TL2: 3652.

Fieldiana, Bot. – Fieldiana, Botany. BPH: 371.03.

Fl. Bryophyt. Sin. – Flora Bryophytorum Sinicorum. Gao Chien (ed.) TL2: NEW.

Fl. Gén. Env. Paris – Flore Générale des Environs de Paris. Chevallier, F. F. TL2: 1101.

Fontqueria – Fontqueria. BPH/S: 337.L.

Fragm. Florist. Geobot. Ser. Polon. – Fragmenta Floristica et Geobotanica, Series Polonica. BPH: NEW.

Harvard Pap. Bot. – Harvard Papers in Botany. BPH/S: 370.L.

Izv. Kievsk. Bot. Sada – Izvestija Kievskogo Botaničeskogo Sada. BPH: 447.12.

J. Bot. (Desvaux) – Journal de Botanique, rédigé par une société de botanistes. BPH: 460.01.

J. Elisha Mitchell Sci. Soc. – Journal of the Elisha Mitchell Society. BPH: 464.14.

J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. – Journal of the Faculty of Science: University of Tokyo, Botany. BPH: 465.18.

Kryptog. Exsicc. – Kryptogamae Exsiccatae. Zahlbruckner, A. TL2: Sayre 31.1.

Malpighia – Malpighia. BPH: 547.22.

Meddel. Värmlands Naturhist. Fören. – Meddelanden från Värmlands Naturhistoriska Förening. BPH: NEW.

Mem. Soc. Cub. Hist. Nat. "Felipe Poey" – Memorias de la Sociedad Cubana de Historia Natural "Felipe Poey." BPH: 583.04.

Mosses South-east Trop. Africa – Mosses of South-east Tropical Africa, an annotated list with distributional data. Kis, G. TL2: NEW.

New York State Mus. Bull. – New York State Museum Bulletin. BPH: 656.24.

Norweg. J. Bot. – Norwegian Journal of Botany. BPH/S: 616L.

Novon – Novon. BPH: NEW.

Occas. Pap. Bernice Pauahi Bishop Mus. – Occasional Papers of the Bernice Pauahi Bishop Museum. BPH: 680.26.

Pl. Syst. Evol. – Plant Systematics and Evolution. BPH/S: 658.L.

Proc. Roy. Soc. Arts Sci. Mauritius – Proceedings of the Royal Society of Arts and Sciences of Mauritius. BPH/S: 681.R.

Proc. Third Meeting Bryol. C. & E. Europe – Proceedings of the Third Meeting of the Bryologists from Central and East Europe. Váňa, J. TL2: NEW.

Publ. Field Columbian Mus., Bot. Ser. – Publications of the Field Columbian Museum, Botanical Series. BPH: 745.06.

Revista Brasil. Bot. – Revista Brasileira de Botánica. BPH/S: 803.L.

Suppl. Prodr. Fl. Bryol. Madagascar – Supplément au Prodrome da la Flore Bryologique de Madagascar. Renauld, F. TL2: 8998*.

Trans. Roy. Soc. Edinburgh – Transactions of the Royal Society of Edinburgh. BPH: 889.28.

Victoria Naturalist – Victoria Naturalist. BPH: 964.01.

Voy. Indes Or. – Voyage aux Indes Orientales. Bélanger, C. P. TL2: 412.

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ISBN 0-915279-47-9